



# Pushbuttons

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# General information

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## Concepts

1. **Momentary pushbuttons** are switching elements which are used for making or breaking contact while they are being pressed.
  2. **Latching pushbutton** are used for making or breaking contact until they are returned to their initial position by being pressed again.
  3. **Illuminated pushbuttons** have the same functions as described for (1) and (2) and feature an additional lamp socket for accommodating a filament, neon lamp or LED.
  4. **Legending** can be effected using kabel holders, legend inserts, by engraving or hot stamping.
- Grooved transparent lenses are not suitable for legending.

## CE-Conformity

The products of the Chapter Pushbuttons" can – relating to the CE-conformity according to the Low-Voltage Directive 73/23/EEG – be divided into the following groups:

### Emergency-stop components with an operating voltage < 50 V

F. ex. LUMOTAST 25 emergency-stop. For this pushbutton the Machine Directive 89/392/EEG applies.

### All products with an operating voltage > 50 V

For these elements the Low-Voltage Directive 72/23/EEG applies.

### All products with an operating voltage < 50 V

For these products no directive applies.

### Single parts, accessories and illumination

For these products no directive applies.

### EMC-Law

The components of this catalogue are within the meaning of the law concerning the Electromagnetic Conformity (= EMC-Law) "basic components as, f. ex., switches, signal lamps or like" and, therefore, do not fall within the scope of the EMC-Law.

## Marking

The marking will be corresponding to the Low-Voltage Directive 73/23/EEG resp. the Directive "CE-Marking 93/68/EEG" either on the packing or on the product itself.



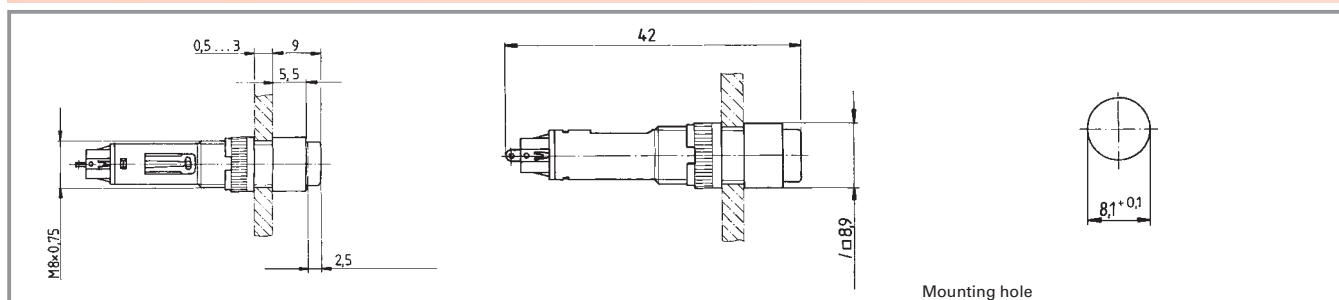
### General Data

Illuminable pushbuttons and signal lamps with lamp socket for a mounting hole diameter of 8.1 mm; 35 V, 250 mA max.

### Content

|                                                     |              |
|-----------------------------------------------------|--------------|
| <b>8 mm Series - Illuminated pushbutton</b>         | <b>1 - 4</b> |
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| 8 mm Series - Signal lamp, square collar            | 1 - 7        |

## 8 mm Series - Illuminated pushbutton



## Technical Data

## General information

|                |                 |
|----------------|-----------------|
| Form of lens   | protruding lens |
| Colour of lens | see order block |
| Form of collar | see order block |

## Dimensions

|                    |                 |
|--------------------|-----------------|
| Length of collar   | see order block |
| Diameter of collar | see order block |
| Width of collar    | see order block |
| Overall height     | 9 mm            |
| Mounting depth     | 31 mm           |
| Mounting hole      | 8.1 mm          |

## Mechanical design

|                     |                  |
|---------------------|------------------|
| Mounting            | ring nut         |
| Terminals           | solder terminals |
| Contact system      | 2 plate springs  |
| Contact function    | see order block  |
| Contact arrangement | 1 NO             |
| Contact materials   | Au               |
| Illumination        | yes              |
| Lamp socket         | Bi-Pin T 1       |

## Mechanical characteristics

|                      |        |
|----------------------|--------|
| Operating force max. | 2.6 N  |
| Operating travel     | 2.7 mm |
| Switching travel NO  | 1 mm   |
| Robustness           | 100 N  |

## Electrical characteristics

|                          |         |
|--------------------------|---------|
| Rated voltage AC/DC max. | 35 V    |
| Rated voltage AC/DC min. | 0.02 V  |
| Rated current AC/DC max. | 250 mA  |
| Rated current AC/DC min. | 0.01 mA |
| Contact resistance max.  | 100 mΩ  |
| Bouncing time max.       | 10 ms   |

## Other specifications

|                                                |                                                 |
|------------------------------------------------|-------------------------------------------------|
| Operating life (operations)                    | 1,000,000<br>(momentary),<br>100,000 (latching) |
| Degree of protection from front side           | IP40                                            |
| Operation temperature min.                     | -25 °C                                          |
| Ambient temp. operating max. without lamp /LED | +70 °C                                          |
| Ambient temp. operating max. with lamp /LED    | +55 °C                                          |
| Storage temperature min.                       | -40 °C                                          |
| Storage temperature max.                       | +80 °C                                          |
| Environmental resistance                       | acc. to IEC 60068-2<br>-14, -30, -33 and -78    |
| Weight                                         | 2 g                                             |
| Soldering time max.                            | 3 s                                             |
| Soldering temperature max.                     | 350 °C                                          |

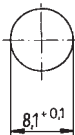
## Typical accessories 8 mm Series - Illuminated pushbutton

| Description                              | Photo | Order no.                | Additional accessories see page |
|------------------------------------------|-------|--------------------------|---------------------------------|
| Filament lamp, Bi-PinT 1 base, 24 - 28 V |       | <b>1.90.180.473/0000</b> | 5 - 5                           |
| LED Bi-PinT 1, red, 3V                   |       | <b>1.90.691.026/0000</b> | 5 - 15                          |
| LED Bi-PinT 1, green, 3V                 |       | <b>1.90.691.027/0000</b> | 5 - 15                          |
| LED Bi-PinT 1, yellow, 3V                |       | <b>1.90.691.028/0000</b> | 5 - 15                          |

## Typical accessories 8 mm Series - Illuminated pushbutton

| Description        | Photo                                                                              | Order no.                | Additional accessories see page |
|--------------------|------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| Fixing spanner M 8 |  | <b>5.58.002.027/7705</b> | 5 - 21                          |

## 8 mm Series - Illuminated pushbutton, round collar

|  |                  |  |  |                                                |
|-----------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------|
| Pict.: with colourless lens                                                       |                  | Mounting hole                                                                     |                                                                                     |                                                |
| Contact arrangement                                                               | Contact function | Lamp socket                                                                       | Order no. without lens                                                              | Note                                           |
| 1 NO                                                                              | momentary        | Bi-Pin T 1                                                                        | 1.15.116.001/0000                                                                   | Please include the desired lens in your order. |
| 1 NO                                                                              | latching         | Bi-Pin T 1                                                                        | 1.15.116.011/0000                                                                   | Please include the desired lens in your order. |

Technical data see page 1 - 4

### Lenses:

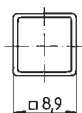
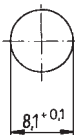
Lens, transparent colourless: 5.05.510.470/1002

Lens, transparent red: 5.05.510.470/1303

Lens, transparent yellow: 5.05.510.470/1402

Lens, transparent green: 5.05.510.470/1502

## 8 mm Series - Illuminated pushbutton, square collar

|  |                  |  |  |                                                |
|-------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------|
| Pict.: with green lens                                                              |                  | Mounting hole                                                                       |                                                                                       |                                                |
| Contact arrangement                                                                 | Contact function | Lamp socket                                                                         | Order no. without lens                                                                | Note                                           |
| 1 NO                                                                                | momentary        | Bi-PinT 1                                                                           | 1.15.116.021/0000                                                                     | Please include the desired lens in your order. |
| 1 NO                                                                                | latching         | Bi-PinT 1                                                                           | 1.15.116.031/0000                                                                     | Please include the desired lens in your order. |

Technical data see page 1 - 4

### Lenses:

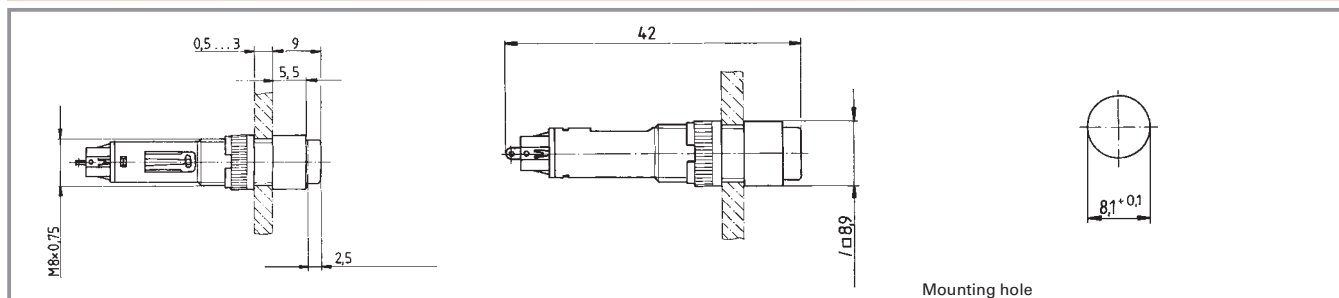
Lens, transparent colourless: 5.05.510.471/1002

Lens, transparent red: 5.05.510.471/1303

Lens, transparent yellow: 5.05.510.471/1402

Lens, transparent green: 5.05.510.471/1502

## 8 mm Series - Signal lamp



## Technical Data

## General information

|                |                 |
|----------------|-----------------|
| Form of lens   | protruding lens |
| Colour of lens | see order block |
| Form of collar | see order block |

## Dimensions

|                    |                 |
|--------------------|-----------------|
| Length of collar   | 8.9 mm          |
| Width of collar    | 8.9 mm          |
| Diameter of collar | see order block |
| Overall height     | 9 mm            |
| Mounting depth     | 31 mm           |
| Mounting hole      | 8.1 mm          |

## Mechanical design

|             |                     |
|-------------|---------------------|
| Mounting    | ring nut            |
| Terminals   | solder terminals    |
| Lamp socket | Bi-Pin T 1          |
| Lamp        | filament lamp / LED |

## Electrical characteristics

|                    |       |
|--------------------|-------|
| Voltage limit max. | 24 V  |
| Power limit max.   | 0.4 W |

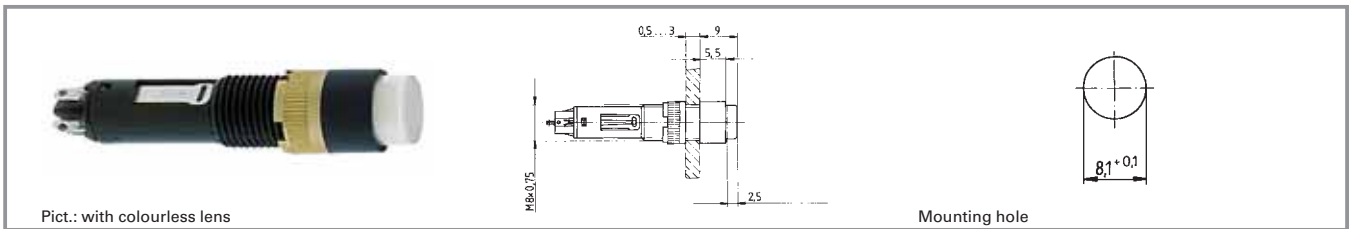
## Other specifications

|                                      |                                              |
|--------------------------------------|----------------------------------------------|
| Degree of protection from front side | IP40                                         |
| Weight                               | 2 g                                          |
| Operation temperature min.           | -25 °C                                       |
| Ambient temp. operating max.         | +55 °C                                       |
| Storage temperature min.             | -40 °C                                       |
| Storage temperature max.             | +80 °C                                       |
| Environmental resistance             | acc. to IEC 60068-2<br>-14, -30, -33 and -78 |
| Soldering time max.                  | 3 s                                          |
| Soldering temperature max.           | 350 °C                                       |

## Typical accessories 8 mm Series - Signal lamp

| Description                               | Photo | Order no.                | Additional accessories see page |
|-------------------------------------------|-------|--------------------------|---------------------------------|
| Filament lamp, Bi-Pin T 1 base, 24 - 28 V |       | <b>1.90.180.473/0000</b> | 5 - 5                           |
| LED Bi-Pin T 1, red, 3 V                  |       | <b>1.90.691.026/0000</b> | 5 - 15                          |
| LED Bi-Pin T 1, green, 3 V                |       | <b>1.90.691.027/0000</b> | 5 - 15                          |
| LED Bi-Pin T 1, yellow, 3 V               |       | <b>1.90.691.028/0000</b> | 5 - 15                          |
| Fixing spanner M 8                        |       | <b>5.58.002.027/7705</b> | 5 - 21                          |

## 8 mm Series - Signal lamp, round collar



| Voltage limit max. | Power limit max. | Lamp socket | Order no. without lens | Note                                           |
|--------------------|------------------|-------------|------------------------|------------------------------------------------|
| 24 V               | 0.4 W            | Bi-Pin T 1  | 1.65.120.001/0000      | Please include the desired lens in your order. |

Technical data see page 1 - 6

### Lenses:

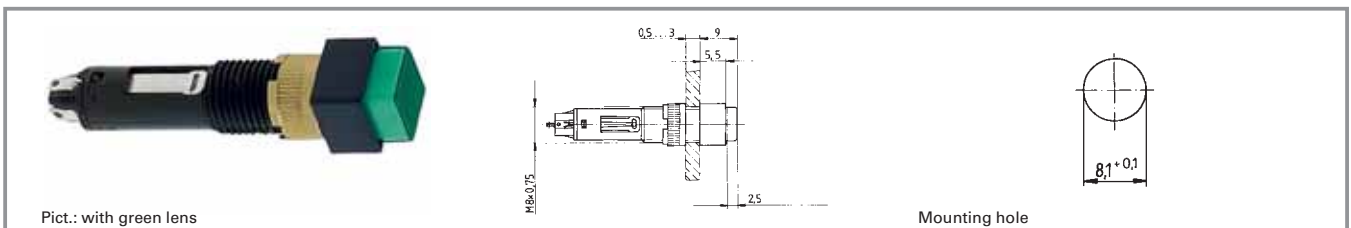
Lens, transparent colourless: 5.05.510.359/1002

Lens, transparent red: 5.05.510.359/1303

Lens, transparent yellow: 5.05.510.359/1402

Lens, transparent green: 5.05.510.359/1502

## 8 mm Series - Signal lamp, square collar



| Voltage limit max. | Power limit max. | Lamp socket | Order no. without lens | Note                                           |
|--------------------|------------------|-------------|------------------------|------------------------------------------------|
| 24 V               | 0.4 W            | Bi-Pin T 1  | 1.65.120.011/0000      | Please include the desired lens in your order. |

Technical data see page 1 - 6

### Lenses:

Lens, transparent colourless: 5.05.510.360/1002

Lens, transparent red: 5.05.510.360/1303

Lens, transparent yellow: 5.05.510.360/1402

Lens, transparent green: 5.05.510.360/1502





## General Data

### LUMOTAST FK - Illuminated pushbutton range

- Illuminable pushbuttons and signal lamps with lamp socket T 1/T 1¼.
- Mounting hole diameter 16.2 mm
- 35 V/100 mA max.
- Water-jet proof IP65
- Low profile
- Keyed socket connector and flat ribbon cable in insulation displacement (IDC) technology or PCB plug-in socket
- Time-saving click fixing method: Insert pushbutton into front panel and press pushbutton once to fix it.

## Content

### LUMOTAST FK - Illuminated pushbutton

- LUMOTAST FK - Illuminated pushbutton, square collar
- LUMOTAST FK - Illuminated pushbutton

1 - 12  
1 - 13  
1 - 14

### LUMOTAST FK - Signal lamp

- LUMOTAST FK - Signal lamp, square collar
- LUMOTAST FK - Signal lamp, round collar
- LUMOTAST FK - Signal lamp, rectangular collar

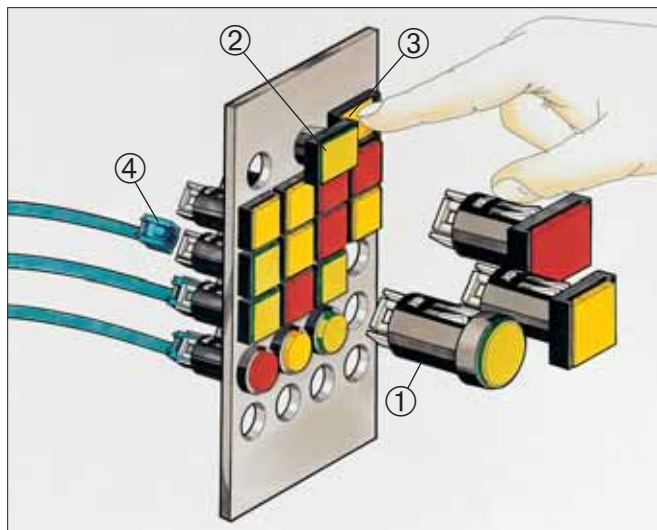
1 - 16  
1 - 17  
1 - 18  
1 - 18

# Series LUMOTAST FK

16.2 mm mounting hole diameter

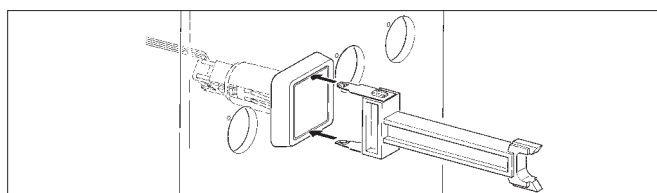
1

## Mounting

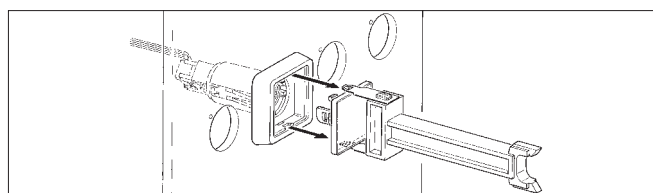
 LUMO  
FK


- ① Pushbutton as supplied
- ② Insert pushbutton into panel cut-out
- ③ Press once to fit
- ④ Attach connector with flat-ribbon cable

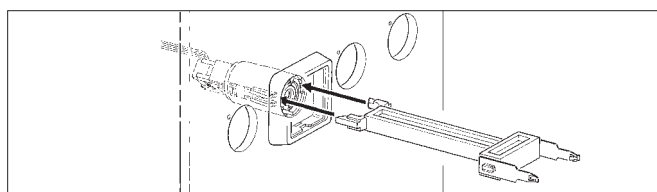
## Disassembly from front side



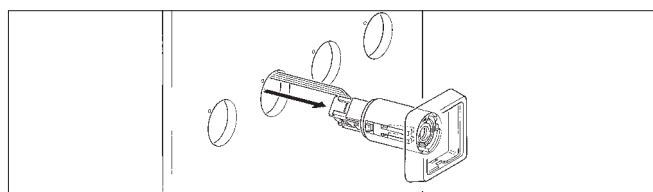
1. Grip body/lens



2. Pull out body/lens



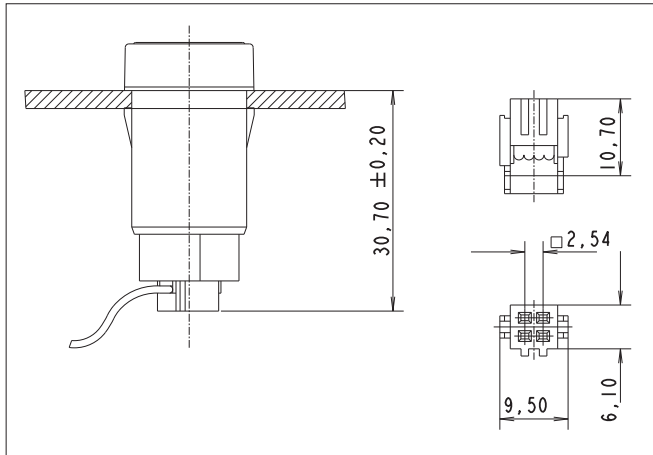
3. Release click lever



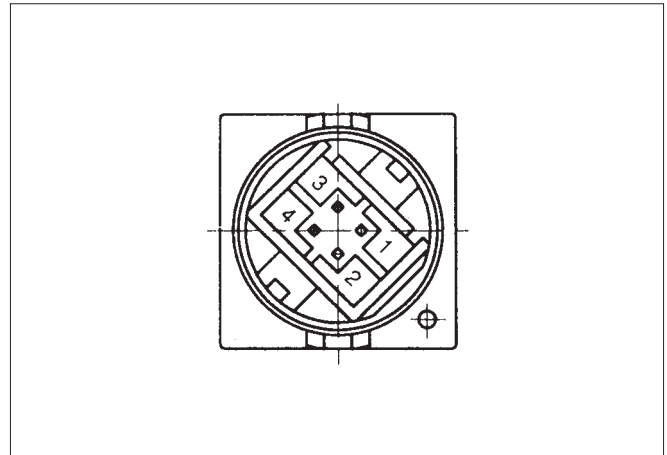
4. Pull out pushbutton/signal lamp with cable

## Dimensional drawing

With quick connector and flat-ribbon cable

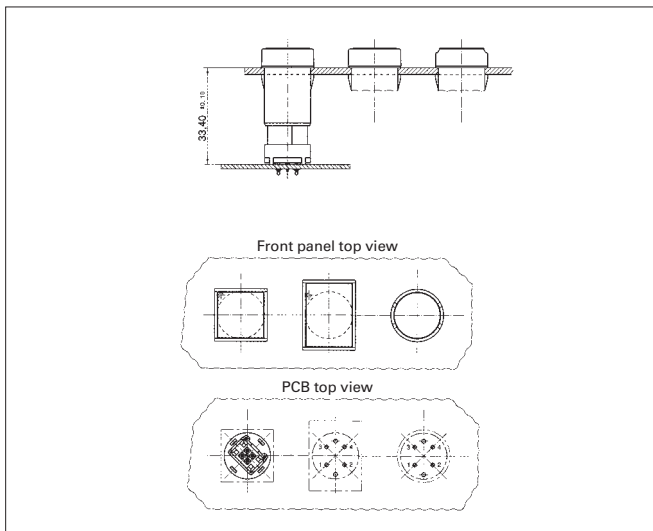


Connection diagram (PCB top view)

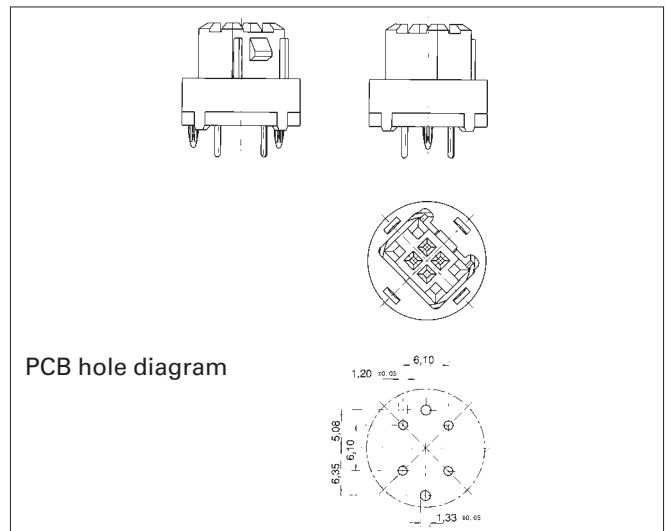


1 + 4 = pushbutton connection, 2 + 3 = lamp connection

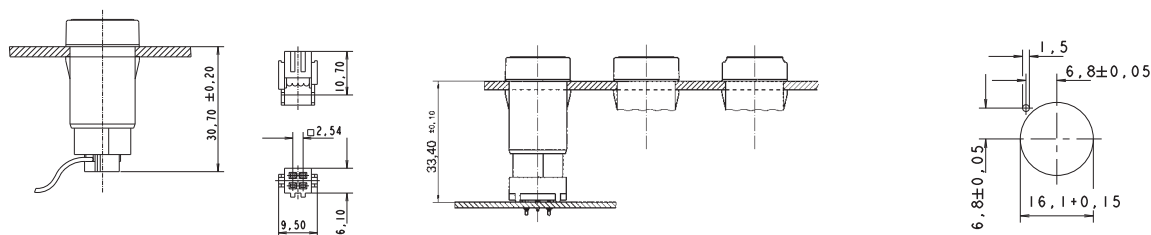
With plug-in socket



Plug-in socket for PCB



## LUMOTAST FK - Illuminated pushbutton



Pict.: with socket connector

with plug-in socket for PCB

Panel cut-out

### Technical Data

#### General information

|                |                 |
|----------------|-----------------|
| Actuator       | flat lens       |
| Colour of lens | see order block |
| Form of collar | see order block |

#### Dimensions

|                                    |                 |
|------------------------------------|-----------------|
| Length of collar                   | see order block |
| Width of collar                    | see order block |
| Diameter of collar                 | see order block |
| Overall height                     | 6.6 mm          |
| Mounting depth with connector      | 30.7 mm         |
| Mounting depth with plug-in socket | 33.4 mm         |
| Mounting hole                      | 16.2 mm         |

#### Mechanical design

|                     |                        |
|---------------------|------------------------|
| Mounting            | click quick connection |
| Terminals           | pin connector          |
| Contact system      | 4-pol./ plug-in socket |
| Contact function    | snap-action contact    |
| Contact arrangement | momentary              |
| Contact materials   | 1 NO                   |
| Illumination        | Au                     |
| Lamp socket         | yes                    |
|                     | Bi-Pin T1 / T1¼        |

#### Mechanical characteristics

|                      |        |
|----------------------|--------|
| Operating force max. | 6 N    |
| Operating travel     | 3 mm   |
| Switching travel     | 1.9 mm |
| Robustness min.      | 100 N  |

#### Electrical characteristics

|                                      |         |
|--------------------------------------|---------|
| Rated voltage AC/DC max.             | 35 V    |
| Rated voltage AC/DC min.             | 0.02 V  |
| Rated current AC/DC max.             | 100 mA  |
| Rated current AC/DC min.             | 0.01 mA |
| Contact resistance acc. to life max. | 300 mΩ  |
| Contact resistance when new max.     | 100 mΩ  |
| Bouncing time max.                   | 5 mΩ    |

#### Other specifications

|                                                |                       |
|------------------------------------------------|-----------------------|
| Operating life (operations)                    | 1,000,000             |
| Degree of protection from front side           | IP65                  |
| Operation temperature min.                     | -25 °C                |
| Ambient temp. operating max. without lamp /LED | +70 °C                |
| Ambient temp. operating max. with lamp /LED    | +55 °C                |
| Storage temperature min.                       | -40 °C                |
| Storage temperature max.                       | +80 °C                |
| Environmental resistance                       | acc. to IEC 60068-2   |
|                                                | -14, -30, -33 and -78 |
| Weight                                         | 6 g                   |

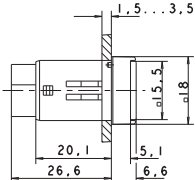
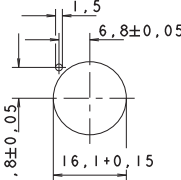
### Typical accessories LUMOTAST FK - Illuminated pushbutton

| Description                           | Photo | Order no.                | Additional accessories see page |
|---------------------------------------|-------|--------------------------|---------------------------------|
| Filament lamp, Bi-Pin T 1¼ base, 12 V |       | <b>1.90.180.474/0000</b> | 5 - 5                           |
| Filament lamp, Bi-Pin T 1¼ base, 28 V |       | <b>1.90.180.475/0000</b> | 5 - 5                           |
| LED Bi-Pin T 1 superbright, red, 24 V |       | <b>1.90.690.351/0000</b> | 5 - 15                          |

**Typical accessories LUMOTAST FK - Illuminated pushbutton**

| Description                                                                               | Photo                                                                               | Order no.                | Additional accessories see page |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| LED Bi-PinT 1 superbright, green, 24 V                                                    |    | <b>1.90.690.352/0000</b> | 5 - 15                          |
| LED Bi-PinT 1 superbright, yellow, 24 V                                                   |    | <b>1.90.690.353/0000</b> | 5 - 15                          |
| LED Bi-PinT 1 superbright, blue, 24 V                                                     |    | <b>1.90.690.354/0000</b> | 5 - 15                          |
| LED Bi-PinT 1 superbright, white, 24 V                                                    |    | <b>1.90.690.355/0000</b> | 5 - 15                          |
| LED Bi-PinT 1, red, 3 V                                                                   |    | <b>1.90.691.026/0000</b> | 5 - 15                          |
| LED Bi-PinT 1, green, 3 V                                                                 |    | <b>1.90.691.027/0000</b> | 5 - 15                          |
| LED Bi-PinT 1, yellow, 3 V                                                                |    | <b>1.90.691.028/0000</b> | 5 - 15                          |
| Plug-in socket for PCB                                                                    |    | <b>5.00.645.036/0000</b> | 5 - 23                          |
| Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin) |  | <b>5.03.771.306/0000</b> | 5 - 22                          |
| Disassembly tool for LUMOTAST FK                                                          |  | <b>5.05.800.041/0000</b> | 5 - 22                          |
| Flat ribbon cable, 4-wire, 1 m long                                                       |  | <b>5.37.700.124/0000</b> | 5 - 23                          |
| Socket connector, 4-pin                                                                   |  | <b>5.92.025.368/0000</b> | 5 - 22                          |

**LUMOTAST FK - Illuminated pushbutton, square collar**

| <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <br/>           Pict.: with yellow lens         </div> <div style="text-align: center;">  </div> <div style="text-align: center;"> <br/>           Panel cut-out         </div> </div> |                     |                          |                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------|------------------------------------------------|
| Contact function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Contact arrangement | Order no. without lens   | Note                                           |
| momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 NO                | <b>1.15.114.906/0000</b> | Please include the desired lens in your order. |

Technical data see page 1 - 12

**Lenses:**

 Lens, square, transparent colourless: **5.49.075.015/1002**

 Lens, square, transparent red: **5.49.075.015/1306**

 Lens, square, transparent yellow: **5.49.075.015/1403**

 Lens, square, transparent green: **5.49.075.015/1505**

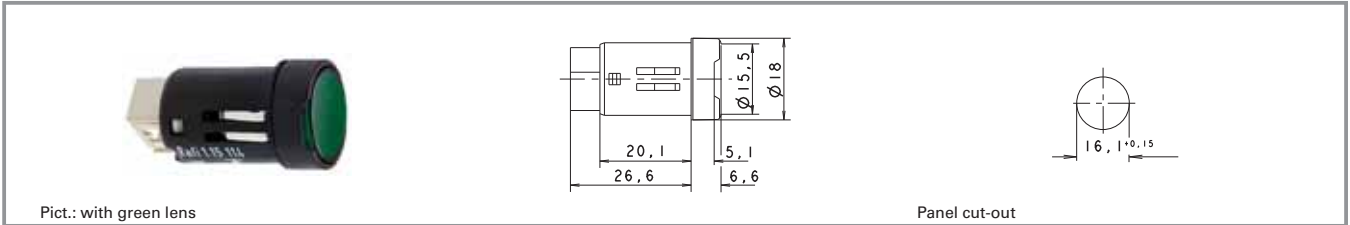
 Lens, square, transparent blue: **5.49.075.015/1607**

A notch on the lamp socket identifies the cathode side.

1

LUMO  
FK

## LUMOTAST FK - Illuminated pushbutton



| Contact function | Contact arrangement | Order no. without lens   | Note                                           |
|------------------|---------------------|--------------------------|------------------------------------------------|
| momentary        | 1 NO                | <b>1.15.114.936/0000</b> | Please include the desired lens in your order. |

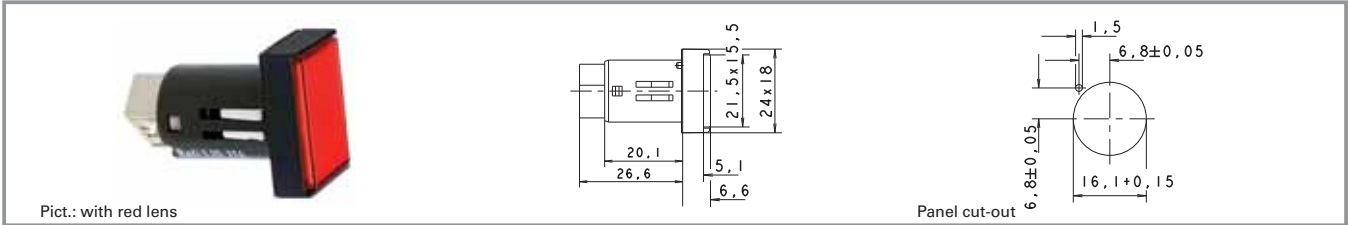
Technical data see page 1 - 12

### Lenses:

- Lens, round, transparent colourless: **5.49.075.016/1002**
- Lens, round, transparent red: **5.49.075.016/1306**
- Lens, round, transparent yellow: **5.49.075.016/1403**
- Lens, round, transparent green: **5.49.075.016/1505**
- Lens, round, transparent blue: **5.49.075.016/1607**

A notch on the lamp socket identifies the cathode side.

## LUMOTAST FK - Illuminated pushbutton



| Contact function | Contact arrangement | Order no. without lens   | Note                                           |
|------------------|---------------------|--------------------------|------------------------------------------------|
| momentary        | 1 NO                | <b>1.15.114.966/0000</b> | Please include the desired lens in your order. |

Technical data see page 1 - 12

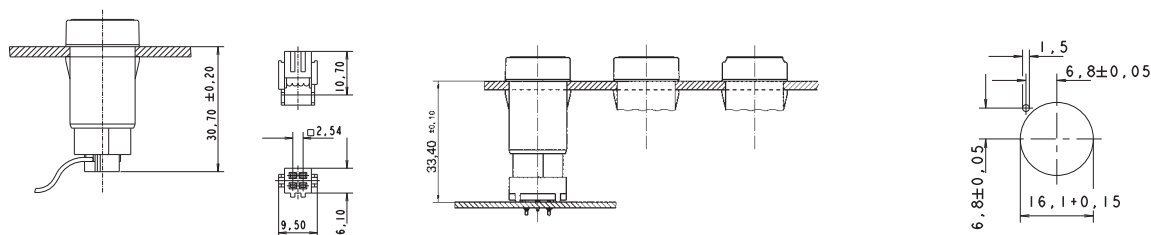
### Lenses:

- Lens, rectangular, transparent colourless: **5.49.075.017/1002**
- Lens, rectangular, transparent red: **5.49.075.017/1306**
- Lens, rectangular, transparent yellow: **5.49.075.017/1403**
- Lens, rectangular, transparent green: **5.49.075.017/1505**
- Lens, rectangular, transparent blue: **5.49.075.017/1607**

A notch on the lamp socket identifies the cathode side.



## LUMOTAST FK - Signal lamp



Pict.: with socket connector

with plug-in socket for PCB

Panel cut-out

LUMO  
FK

### Technical Data

#### General information

|                |                 |
|----------------|-----------------|
| Form of lens   | flat lens       |
| Colour of lens | see order block |
| Form of collar | see order block |

#### Dimensions

|                                    |                 |
|------------------------------------|-----------------|
| Length of collar                   | see order block |
| Width of collar                    | see order block |
| Overall height                     | see order block |
| Mounting depth with connector      | 30.7 mm         |
| Mounting depth with plug-in socket | 33.4 mm         |
| Mounting hole                      | 16.2 mm         |

#### Mechanical design

|             |                        |
|-------------|------------------------|
| Mounting    | click quick connection |
| Terminals   | pin connector          |
|             | 4-pol./ plug-in socket |
| Lamp socket | Bi-Pin T 1/T 1¼        |
| Lamp        | filament lamp / LED    |

#### Electrical characteristics

|                    |       |
|--------------------|-------|
| Voltage limit max. | 24 V  |
| Power limit max.   | 0.7 W |

#### Other specifications

|                                      |                                              |
|--------------------------------------|----------------------------------------------|
| Degree of protection from front side | IP65                                         |
| Weight                               | 5 g                                          |
| Operation temperature min.           | -25 °C                                       |
| Ambient temp. operating max.         | +55 °C                                       |
| Storage temperature min.             | -40 °C                                       |
| Storage temperature max.             | +80 °C                                       |
| Environmental resistance             | acc. to IEC 60068-2<br>-14, -30, -33 and -78 |

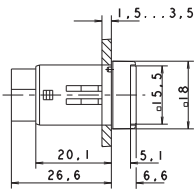
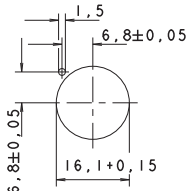
### Typical accessories LUMOTAST FK - Signal lamp

| Description                              | Photo | Order no.                | Additional accessories see page |
|------------------------------------------|-------|--------------------------|---------------------------------|
| Filament lamp, Bi-Pin T 1¼ base, 12 V    |       | <b>1.90.180.474/0000</b> | 5 - 5                           |
| Filament lamp, Bi-Pin T 1¼ base, 28 V    |       | <b>1.90.180.475/0000</b> | 5 - 5                           |
| LED Bi-Pin T 1 superbright, red, 24 V    |       | <b>1.90.690.351/0000</b> | 5 - 15                          |
| LED Bi-Pin T 1 superbright, green, 24 V  |       | <b>1.90.690.352/0000</b> | 5 - 15                          |
| LED Bi-Pin T 1 superbright, yellow, 24 V |       | <b>1.90.690.353/0000</b> | 5 - 15                          |
| LED Bi-Pin T 1 superbright, blue, 24 V   |       | <b>1.90.690.354/0000</b> | 5 - 15                          |
| LED Bi-Pin T 1 superbright, white, 24 V  |       | <b>1.90.690.355/0000</b> | 5 - 15                          |

## Typical accessories LUMOTAST FK - Signal lamp

| Description                                                                               | Photo                                                                              | Order no.                | Additional accessories see page |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| LED Bi-PinT 1, red, 3V                                                                    |  | <b>1.90.691.026/0000</b> | 5 - 15                          |
| LED Bi-PinT 1, green, 3V                                                                  |  | <b>1.90.691.027/0000</b> | 5 - 15                          |
| LED Bi-PinT 1, yellow, 3V                                                                 |  | <b>1.90.691.028/0000</b> | 5 - 15                          |
| Plug-in socket for PCB                                                                    |  | <b>5.00.645.036/0000</b> | 5 - 23                          |
| Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin) |  | <b>5.03.771.306/0000</b> | 5 - 22                          |
| Disassembly tool for LUMOTAST FK                                                          |  | <b>5.05.800.041/0000</b> | 5 - 22                          |
| Flat ribbon cable, 4-wire, 1 m long                                                       |  | <b>5.37.700.124/0000</b> | 5 - 23                          |
| Socket connector, 4-pin                                                                   |  | <b>5.92.025.368/0000</b> | 5 - 22                          |

## LUMOTAST FK - Signal lamp, square collar

| <div style="display: flex; justify-content: space-around; align-items: center;">  <div style="text-align: center;">  <p>Pict.: with red lens</p> </div> <div style="text-align: center;">  <p>Panel cut-out</p> </div> </div> |                    |                |                          |                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------|--------------------------|------------------------------------------------|
| Power limit max.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Voltage limit max. | Lamp socket    | Order no. without lens   | Note                                           |
| 0.7 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24 V               | Bi-PinT 1/T 1¼ | <b>1.65.121.906/0000</b> | Please include the desired lens in your order. |

Technical data see page 1 - 16

### Lenses:

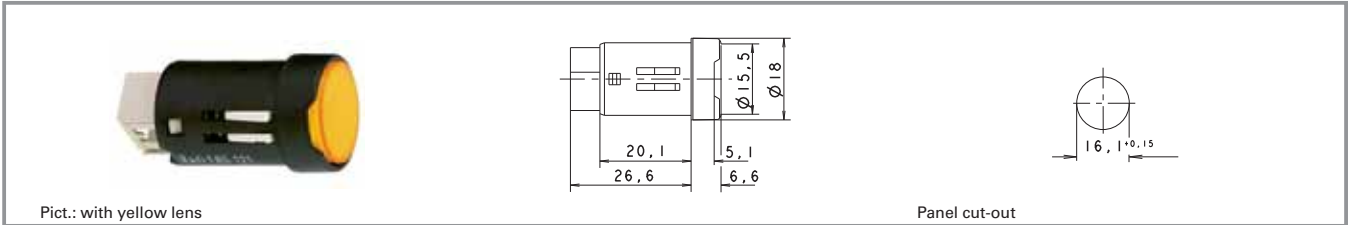
Lens, square, transparent colourless: **5.49.075.015/1002**  
 Lens, square, transparent red: **5.49.075.015/1306**  
 Lens, square, transparent yellow: **5.49.075.015/1403**  
 Lens, square, transparent green: **5.49.075.015/1505**  
 Lens, square, transparent blue: **5.49.075.015/1607**

Do not press in lens in disassembled condition.  
 A notch on the lamp socket identifies the cathode side.

1

LUMO  
FK

## LUMOTAST FK - Signal lamp, round collar



| Power limit max. | Voltage limit max. | Lamp socket     | Order no. without lens   | Note                                           |
|------------------|--------------------|-----------------|--------------------------|------------------------------------------------|
| 0.7 W            | 24 V               | Bi-Pin T 1/T 1¼ | <b>1.65.121.936/0000</b> | Please include the desired lens in your order. |

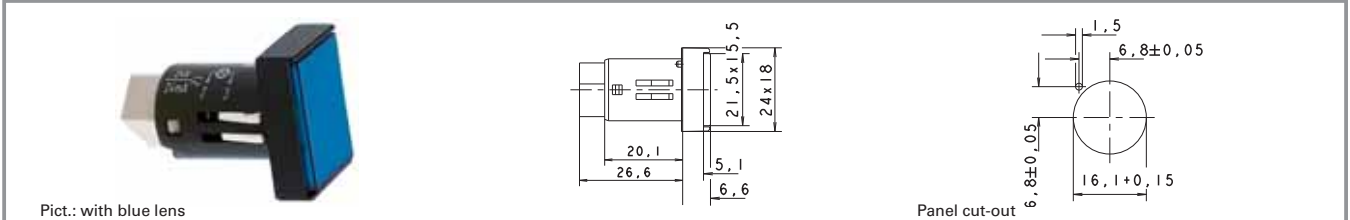
Technical data see page 1 - 16

### Lenses:

- Lens, round, transparent colourless: **5.49.075.016/1002**
- Lens, round, transparent red: **5.49.075.016/1306**
- Lens, round, transparent yellow: **5.49.075.016/1403**
- Lens, round, transparent green: **5.49.075.016/1505**
- Lens, round, transparent blue: **5.49.075.016/1607**

Do not press in lens in disassembled condition.  
A notch on the lamp socket identifies the cathode side.

## LUMOTAST FK - Signal lamp, rectangular collar



| Power limit max. | Voltage limit max. | Lamp socket     | Order no. without lens   | Note                                           |
|------------------|--------------------|-----------------|--------------------------|------------------------------------------------|
| 0.7 W            | 24 V               | Bi-Pin T 1/T 1¼ | <b>1.65.121.966/0000</b> | Please include the desired lens in your order. |

Technical data see page 1 - 16

### Lenses:

- Lens, rectangular, transparent colourless: **5.49.075.017/1002**
- Lens, rectangular, transparent red: **5.49.075.017/1306**
- Lens, rectangular, transparent yellow: **5.49.075.017/1403**
- Lens, rectangular, transparent green: **5.49.075.017/1505**
- Lens, rectangular, transparent blue: **5.49.075.017/1607**

Do not press in lens in disassembled condition.  
A notch on the lamp socket identifies the cathode side.



## General Data

### LUMOTAST 25 - Pushbutton range

- Illuminable pushbuttons and signal lamps.
- Mounting hole diameter: 16.2 mm
- 35 V/100 mA max.
- Water-jet proof IP65
- Low profile
- Lamp socket Bi-Pin T 1 for LEDs and filament lamps
- Keyed socket connector and flat ribbon cable or PCB plug-in socket
- Ring nut or click fixing method.

## Content

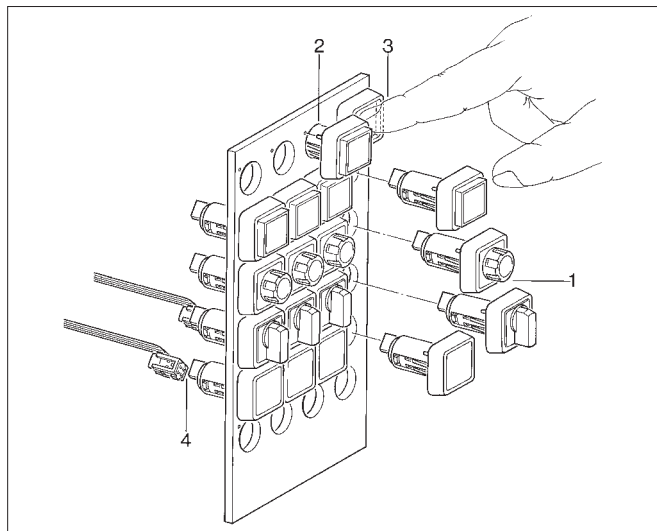
|                                                                                           |               |
|-------------------------------------------------------------------------------------------|---------------|
| <b>LUMOTAST 25 - Illuminated pushbutton</b>                                               | <b>1 - 22</b> |
| LUMOTAST 25 - Illuminated pushbutton with flush lens, „Click“ quick-assembly feature      | 1 - 24        |
| LUMOTAST 25 - Illuminated pushbutton with flush lens, ring nut fixing                     | 1 - 24        |
| LUMOTAST 25 - Illuminated pushbutton with protruding lens, „Click“ quick-assembly feature | 1 - 25        |
| LUMOTAST 25 - Illuminated pushbutton with protruding lens, ring nut fixing                | 1 - 25        |
| <b>LUMOTAST 25 - Selector switch</b>                                                      | <b>1 - 26</b> |
| LUMOTAST 25 - Selector switch, ring nut fixing                                            | 1 - 27        |
| <b>LUMOTAST 25 - Keylock switch</b>                                                       | <b>1 - 28</b> |
| LUMOTAST 25 - Keylock switch                                                              | 1 - 29        |
| <b>LUMOTAST 25 - Emergency stop pushbutton</b>                                            | <b>1 - 30</b> |
| LUMOTAST 25 - Emergency stop pushbutton, ring nut fixing                                  | 1 - 31        |
| <b>LUMOTAST 25 - Signal lamp</b>                                                          | <b>1 - 32</b> |
| LUMOTAST 25 - Signal lamp, 24 V, „Click“ quick-assembly feature                           | 1 - 33        |
| LUMOTAST 25 - Signal lamp, 24 V, ring nut fixing                                          | 1 - 34        |

# Series LUMOTAST 25

16.2 mm mounting hole diameter

1

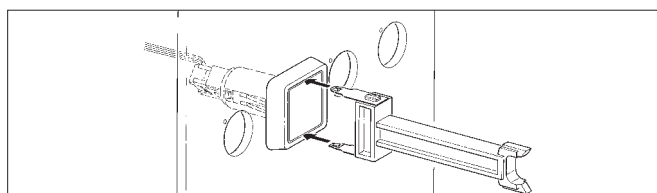
## Mounting of Click-Version



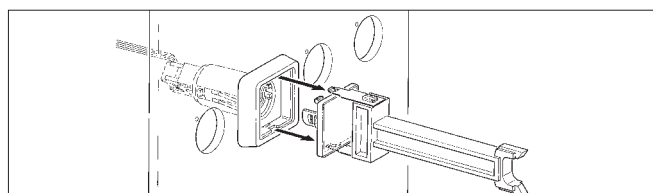
1. As delivered
2. Insert pushbutton in hole
3. Actuate once
4. Insert connector with flat-ribbon cable

## Disassembly Click-Version from Front Side

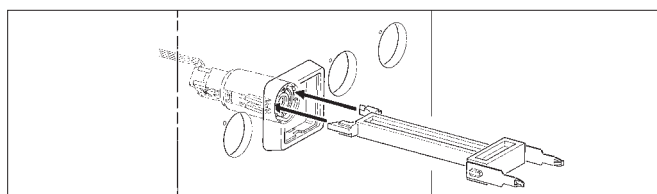
Click-Version from front (only for pushbuttons and signal lamps with special tool for dismounting)



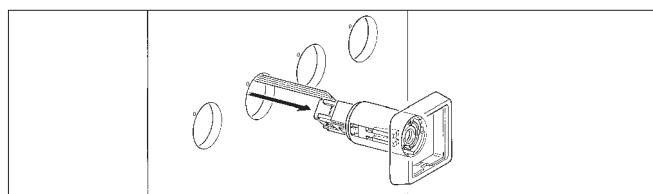
1. Grip body/lens



2. Pull out body/lens



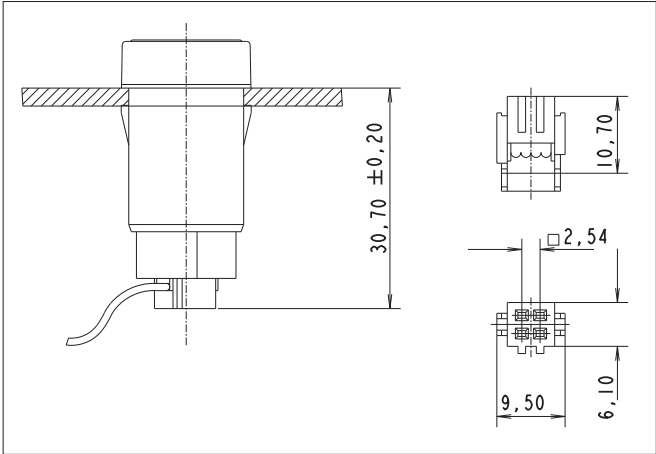
3. Release click lever



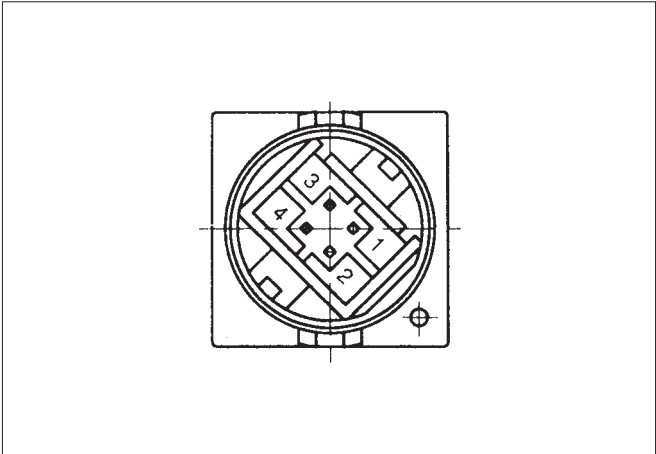
4. Pull out pushbutton/signal lamp with cable

Dimensional drawing

With quick connector and flat-ribbon cable

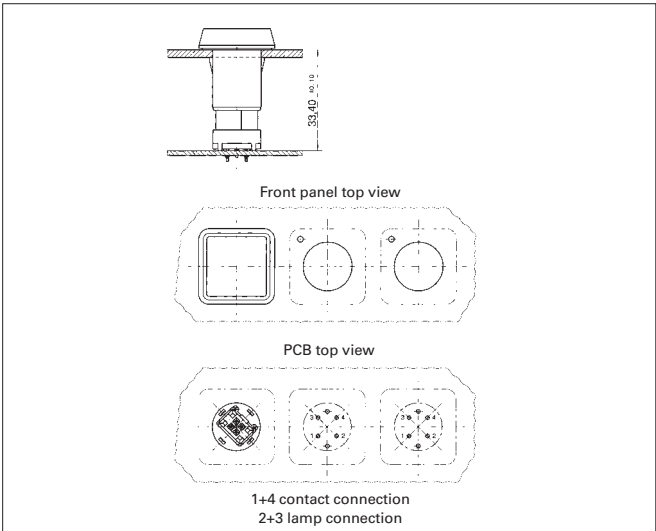


Connection diagram (PCB top view)

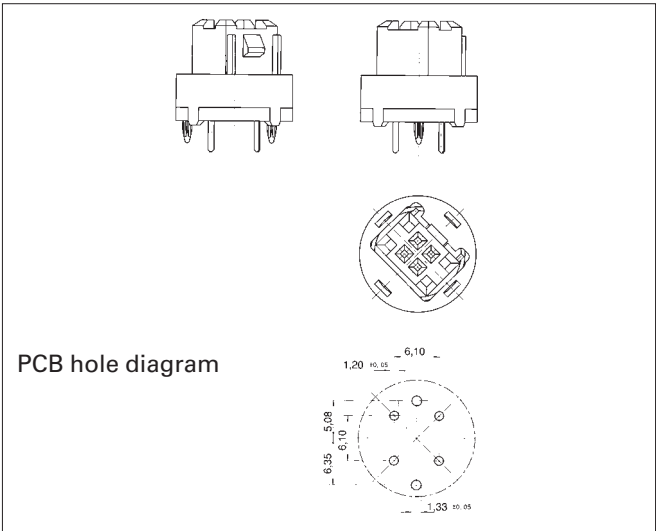


1 + 4 = pushbutton connection 2 + 3 = lamp connection

With plug-in socket



Plug-in socket for PCB



## LUMOTAST 25 - Illuminated pushbutton



### Technical Data

#### General information

|                |                 |
|----------------|-----------------|
| Form of lens   | see order block |
| Colour of lens | see order block |
| Form of collar | square          |

#### Dimensions

|                                    |         |
|------------------------------------|---------|
| Length of collar                   | 25 mm   |
| Width of collar                    | 25 mm   |
| Overall height                     | 7.1 mm  |
| Mounting depth with connector      | 30.7 mm |
| Mounting depth with plug-in socket | 33.4 mm |
| Mounting hole                      | 16.2 mm |

#### Mechanical design

|                     |                                         |
|---------------------|-----------------------------------------|
| Mounting            | see order block                         |
| Terminals           | pin connector<br>4-pol./ plug-in socket |
| Contact system      | snap-action contact                     |
| Contact function    | momentary                               |
| Contact arrangement | 1 NO                                    |
| Contact materials   | Au                                      |
| Illumination        | yes                                     |
| Lamp socket         | Bi-Pin T1 / T1¼                         |

#### Mechanical characteristics

|                      |       |
|----------------------|-------|
| Operating force max. | 6 N   |
| Operating travel     | 3 mm  |
| Switching travel     | 2 mm  |
| Robustness min.      | 100 N |

#### Electrical characteristics

|                          |         |
|--------------------------|---------|
| Rated voltage AC/DC max. | 35 V    |
| Rated voltage AC/DC min. | 0.02 V  |
| Rated current AC/DC max. | 100 mA  |
| Rated current AC/DC min. | 0.01 mA |
| Contact resistance max.  | 100 mΩ  |
| Bouncing time max.       | 5 ms    |

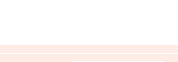
#### Other specifications

|                                                |                                              |
|------------------------------------------------|----------------------------------------------|
| Operating life (operations)                    | 1,000,000                                    |
| Degree of protection from front side           | IP65                                         |
| Ambient temp. operating max. without lamp /LED | -25 °C                                       |
| Ambient temp. operating max. without lamp /LED | +70 °C                                       |
| Ambient temp. operating min. with lamp /LED    | -25 °C                                       |
| Ambient temp. operating max. with lamp /LED    | +55 °C                                       |
| Storage temperature min.                       | -40 °C                                       |
| Storage temperature max.                       | +80 °C                                       |
| Environmental resistance                       | acc. to IEC 60068-2<br>-14, -30, -33 and -78 |
| Weight                                         | 7 g                                          |

### Typical accessories LUMOTAST 25 - Illuminated pushbutton

| Description                             | Photo | Order no.                | Additional accessories see page |
|-----------------------------------------|-------|--------------------------|---------------------------------|
| Filament lamp, Bi-Pin T 1¼ base, 12 V   |       | <b>1.90.180.474/0000</b> | 5 - 5                           |
| Filament lamp, Bi-Pin T 1¼ base, 28 V   |       | <b>1.90.180.475/0000</b> | 5 - 5                           |
| LED Bi-Pin T 1 superbright, red, 24 V   |       | <b>1.90.690.351/0000</b> | 5 - 15                          |
| LED Bi-Pin T 1 superbright, green, 24 V |       | <b>1.90.690.352/0000</b> | 5 - 15                          |

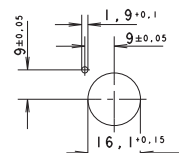
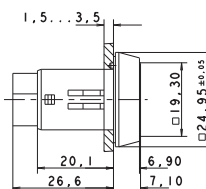
**Typical accessories LUMOTAST 25 - Illuminated pushbutton**

| Description                                                                               | Photo                                                                               | Order no.                | Additional accessories see page |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| LED Bi-PinT 1 superbright, yellow, 24 V                                                   |    | <b>1.90.690.353/0000</b> | 5 - 15                          |
| LED Bi-PinT 1 superbright, blue, 24 V                                                     |    | <b>1.90.690.354/0000</b> | 5 - 15                          |
| LED Bi-PinT 1 superbright, white, 24 V                                                    |    | <b>1.90.690.355/0000</b> | 5 - 15                          |
| LED Bi-PinT 1, red, 3 V                                                                   |    | <b>1.90.691.026/0000</b> | 5 - 15                          |
| LED Bi-PinT 1, green, 3 V                                                                 |    | <b>1.90.691.027/0000</b> | 5 - 15                          |
| LED Bi-PinT 1, yellow, 3 V                                                                |    | <b>1.90.691.028/0000</b> | 5 - 15                          |
| Plug-in socket for PCB                                                                    |    | <b>5.00.645.036/0000</b> | 5 - 23                          |
| Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin) |    | <b>5.03.771.306/0000</b> | 5 - 22                          |
| Disassembly tool for LUMOTAST 25, RAFIX 16                                                |  | <b>5.05.800.042/0000</b> | 2 - 94                          |
| Blanking cap complete with sealing disc and ring nut, square                              |  | <b>5.05.800.049/0100</b> | 2 - 100, 5 - 26                 |
| Label holder, flush, for square collar                                                    |  | <b>5.07.620.004/0000</b> | 2 - 96                          |
| Flat ribbon cable, 4-wire, 1 m long                                                       |  | 5.37.700.124/0000        | 5 - 23                          |
| Fixing spanner M 15, M 16                                                                 |  | 5.58.002.019/0105        | 5 - 21                          |
| Legend insert, blank, use only for transparent lenses                                     |  | <b>5.70.635.000/2000</b> |                                 |
| Legend label 23 x 16 for label holder, without legend                                     |  | <b>5.73.111.000/0000</b> |                                 |
| Socket connector, 4-pin                                                                   |  | <b>5.92.025.368/0000</b> | 5 - 22                          |

## LUMOTAST 25 - Illuminated pushbutton with flush lens, „Click“ quick-assembly feature



Pict.: with colourless lens



Panel cut-out

| Contact function | Contact arrangement | Order no. without lens   | Note                                           |
|------------------|---------------------|--------------------------|------------------------------------------------|
| momentary        | 1 NO                | <b>1.15.150.506/0000</b> | Please include the desired lens in your order. |

Technical data see page 1 - 22

### Lenses:

Lens, square, transparent colourless: 5.49.077.011/1002

Lens, square, transparent red: 5.49.077.011/1306

Lens, square, transparent yellow: 5.49.077.011/1403

Lens, square, transparent green: 5.49.077.011/1505

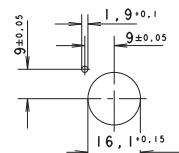
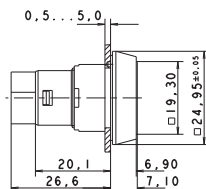
Lens, square, transparent blue: 5.49.077.011/1607

Note when using LEDs: A notch on the lamp socket identifies the cathode side.

## LUMOTAST 25 - Illuminated pushbutton with flush lens, ring nut fixing



Pict.: with green lens



Panel cut-out

| Contact function | Contact arrangement | Order no. without lens   | Note                                           |
|------------------|---------------------|--------------------------|------------------------------------------------|
| momentary        | 1 NO                | <b>1.15.150.556/0000</b> | Please include the desired lens in your order. |

Technical data see page 1 - 22

### Lenses:

Lens, square, transparent colourless: 5.49.077.011/1002

Lens, square, transparent red: 5.49.077.011/1306

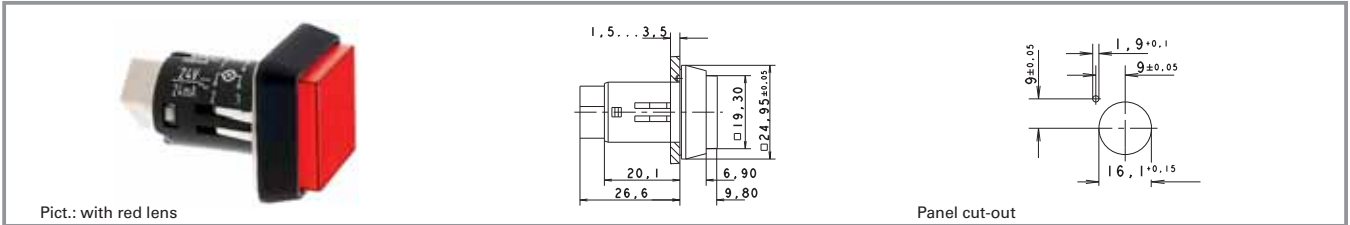
Lens, square, transparent yellow: 5.49.077.011/1403

Lens, square, transparent green: 5.49.077.011/1505

Lens, square, transparent blue: 5.49.077.011/1607

Note when using LEDs: A notch on the lamp socket identifies the cathode side.

## LUMOTAST 25 - Illuminated pushbutton with protruding lens, „Click“ quick-assembly feature



| Contact function | Contact arrangement | Order no. without lens   | Note                                           |
|------------------|---------------------|--------------------------|------------------------------------------------|
| momentary        | 1 NO                | <b>1.15.150.606/0000</b> | Please include the desired lens in your order. |

Technical data see page 1 - 22

### Lenses:

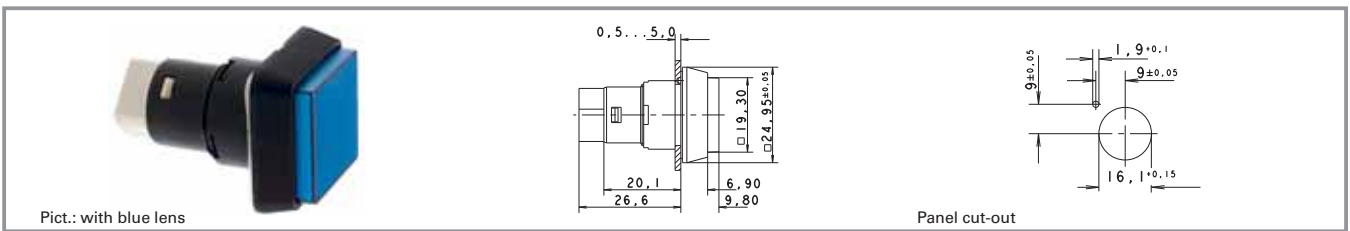
- Lens, square, transparent colourless: 5.49.077.012/1002
- Lens, square, transparent red: 5.49.077.012/1306
- Lens, square, transparent yellow: 5.49.077.012/1403
- Lens, square, transparent green: 5.49.077.012/1505
- Lens, square, transparent blue: 5.49.077.012/1607

Note when using LEDs: A notch on the lamp socket identifies the cathode side.

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## LUMOTAST 25 - Illuminated pushbutton with protruding lens, ring nut fixing



| Contact function | Contact arrangement | Order no. without lens   | Note                                           |
|------------------|---------------------|--------------------------|------------------------------------------------|
| momentary        | 1 NO                | <b>1.15.150.656/0000</b> | Please include the desired lens in your order. |

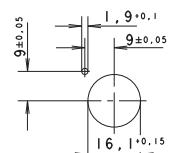
Technical data see page 1 - 22

### Lenses:

- Lens, square, transparent colourless: 5.49.077.012/1002
- Lens, square, transparent red: 5.49.077.012/1306
- Lens, square, transparent yellow: 5.49.077.012/1403
- Lens, square, transparent green: 5.49.077.012/1505
- Lens, square, transparent blue: 5.49.077.012/1607

Note when using LEDs: A notch on the lamp socket identifies the cathode side.

## LUMOTAST 25 - Selector switch



Panel cut-out

### Technical Data

#### General information

|                  |              |
|------------------|--------------|
| Actuator         | handle       |
| Colour of handle | black opaque |
| Form of collar   | square       |

#### Dimensions

|                                    |         |
|------------------------------------|---------|
| Length of collar                   | 25 mm   |
| Width of collar                    | 25 mm   |
| Overall height                     | 17 mm   |
| Mounting depth with connector      | 30.7 mm |
| Mounting depth with plug-in socket | 33.4 mm |
| Mounting hole                      | 16.2 mm |

#### Mechanical design

|                     |                                         |
|---------------------|-----------------------------------------|
| Mounting            | see order block                         |
| Terminals           | pin connector<br>4-pol./ plug-in socket |
| Contact system      | snap-action contact                     |
| Contact function    | see order block                         |
| Contact arrangement | 1 NO                                    |
| Contact materials   | Au                                      |
| Illumination        | no                                      |

#### Mechanical characteristics

|                      |                 |
|----------------------|-----------------|
| Operating force min. | 0.03 Nm         |
| Rotating angle       | see order block |
| Robustness max.      | 1.5 N           |

#### Electrical characteristics

|                          |         |
|--------------------------|---------|
| Rated voltage AC/DC max. | 35 V    |
| Rated voltage AC/DC min. | 0.02 V  |
| Rated current AC/DC max. | 100 mA  |
| Rated current AC/DC min. | 0.01 mA |
| Contact resistance max.  | 100 mΩ  |
| Bouncing time max.       | 5 ms    |

#### Other specifications

|                                      |                                              |
|--------------------------------------|----------------------------------------------|
| Operating life (operations)          | 500,000                                      |
| Degree of protection from front side | IP65                                         |
| Operation temperature min.           | -25 °C                                       |
| Ambient temp. operating max.         | +70 °C                                       |
| Storage temperature min.             | -40 °C                                       |
| Storage temperature max.             | +80 °C                                       |
| Environmental resistance             | acc. to IEC 60068-2<br>-14, -30, -33 and -78 |
| Weight                               | 8 g                                          |

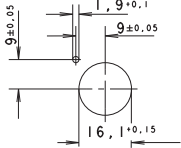
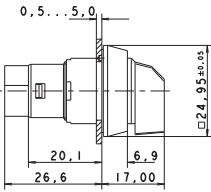
### Typical accessories LUMOTAST 25 - Selector switch

| Description                                                                               | Photo | Order no.                | Additional accessories see page |
|-------------------------------------------------------------------------------------------|-------|--------------------------|---------------------------------|
| Plug-in socket for PCB                                                                    |       | <b>5.00.645.036/0000</b> | 5 - 23                          |
| Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin) |       | <b>5.03.771.306/0000</b> | 5 - 22                          |
| Blanking cap complete with sealing disc and ring nut, square                              |       | <b>5.05.800.049/0100</b> | 2 - 100, 5 - 26                 |
| Label holder, flush, for square collar                                                    |       | <b>5.07.620.004/0000</b> | 2 - 96                          |
| Flat ribbon cable, 4-wire, 1 m long                                                       |       | <b>5.37.700.124/0000</b> | 5 - 23                          |

Typical accessories LUMOTAST 25 - Selector switch

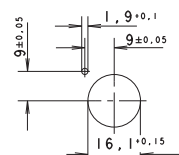
| Description               | Photo                                                                              | Order no.         | Additional accessories see page |
|---------------------------|------------------------------------------------------------------------------------|-------------------|---------------------------------|
| Fixing spanner M 15, M 16 |  | 5.58.002.019/0105 | 5 - 21                          |
| Socket connector, 4-pin   |  | 5.92.025.368/0000 | 5 - 22                          |

LUMOTAST 25 - Selector switch, ring nut fixing

| <div><p>Panel cut-out</p></div> |                  |                                                                                                        |          |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------|----------|-------------------|
| Contact arrangement                                                                                                                                                                                                                                                                  | Contact function | Rotating angle                                                                                         | Actuator | Order no.         |
| 1 NO                                                                                                                                                                                                                                                                                 | latching         | right, 1 x 90°<br> | handle   | 1.15.153.106/0100 |

Technical data see page 1 - 26

## LUMOTAST 25 - Keylock switch



Panel cut-out

### Technical Data

#### General information

|                |              |
|----------------|--------------|
| Colour of lens | black opaque |
| Form of collar | square       |

#### Dimensions

|                                    |         |
|------------------------------------|---------|
| Length of collar                   | 25 mm   |
| Width of collar                    | 25 mm   |
| Overall height                     | 32.3 mm |
| Mounting depth with connector      | 30.7 mm |
| Mounting depth with plug-in socket | 33.4 mm |
| Mounting hole                      | 16.2 mm |

#### Mechanical design

|                             |                        |
|-----------------------------|------------------------|
| Mounting                    | ring nut               |
| Terminals                   | pin connector          |
|                             | 4-pol./ plug-in socket |
| Contact system              | snap-action contact    |
| Contact function            | latching               |
| Contact arrangement         | 1 NO                   |
| Contact materials           | Au                     |
| Illumination                | no                     |
| Lamp socket                 | no                     |
| Lock                        | cylinder lock          |
| Wafers                      | 8 pins                 |
| Lock type                   | 5201                   |
| Number of locking positions | 10,000                 |
| Main key                    | yes                    |
| Symmetric key               | yes                    |
| Key removal position        | see order block        |

#### Mechanical characteristics

|                      |       |
|----------------------|-------|
| Operating force max. | 1.5 N |
| Rotating angle       | 90°   |

#### Electrical characteristics

|                          |         |
|--------------------------|---------|
| Rated voltage AC/DC max. | 35 V    |
| Rated voltage AC/DC min. | 0.02 V  |
| Rated current AC/DC max. | 100 mA  |
| Rated current AC/DC min. | 0.01 mA |
| Contact resistance max.  | 100 mΩ  |
| Bouncing time max.       | 5 ms    |

#### Other specifications

|                                      |                                           |
|--------------------------------------|-------------------------------------------|
| Operating life (operations)          | 50,000                                    |
| Degree of protection from front side | IP65                                      |
| Operation temperature min.           | -25 °C                                    |
| Ambient temp. operating max.         | +70 °C                                    |
| Storage temperature min.             | -40 °C                                    |
| Storage temperature max.             | +80 °C                                    |
| Environmental resistance             | acc. to IEC 60068-2 -14, -30, -33 and -78 |
| Weight                               | 20 g                                      |

### Typical accessories LUMOTAST 25 - Keylock switch

| Description                                                                               | Photo | Order no.                | Additional accessories see page |
|-------------------------------------------------------------------------------------------|-------|--------------------------|---------------------------------|
| Plug-in socket for PCB                                                                    |       | <b>5.00.645.036/0000</b> | 5 - 23                          |
| Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin) |       | <b>5.03.771.306/0000</b> | 5 - 22                          |
| Blanking cap complete with sealing disc and ring nut, square                              |       | <b>5.05.800.049/0100</b> | 2 - 100, 5 - 26                 |

## 1

**LUMO**  
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Included: 2 keys.

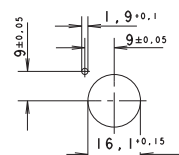
## LUMOTAST 25 - Emergency stop pushbutton



Pict.: yellow collar



black collar



Panel cut-out

### Technical Data

#### General information

|                  |                 |
|------------------|-----------------|
| Colour of lens   | opaque red      |
| Form of collar   | square          |
| Colour of collar | see order block |

#### Dimensions

|                                    |         |
|------------------------------------|---------|
| Length of collar                   | 25 mm   |
| Width of collar                    | 25 mm   |
| Overall height                     | 18.5 mm |
| Mounting depth with connector      | 30.7 mm |
| Mounting depth with plug-in socket | 33.4 mm |
| Mounting hole                      | 16.2 mm |

#### Mechanical design

|                     |                          |
|---------------------|--------------------------|
| Mounting            | ring nut                 |
| Terminals           | pin connector            |
| Contact system      | 4-pol./ plug-in socket   |
| Contact function    | snap-action contact      |
| Contact arrangement | latching                 |
|                     | 2 NC (forcibly actuated) |
| Contact materials   | Au                       |
| Illumination        | no                       |
| Reset               | by pulling               |

#### Mechanical characteristics

|                      |        |
|----------------------|--------|
| Operating force max. | 10 N   |
| Operating travel     | 2.6 mm |
| Switching travel     | 2 mm   |
| Robustness min.      | 100 N  |

#### Electrical characteristics

|                          |                                   |
|--------------------------|-----------------------------------|
| Rated voltage AC/DC max. | 25 V                              |
| Rated voltage AC/DC min. | 0.02 V                            |
| Rated current AC/DC max. | 100 mA (1A short-circuit current) |
| Rated current AC/DC min. | 0.01 mA                           |
| Contact resistance max.  | 100 mΩ                            |
| Bouncing time max.       | 10 ms                             |

#### Other specifications

|                                      |                       |
|--------------------------------------|-----------------------|
| Operating life (operations)          | 15,000                |
| Degree of protection from front side | IP65                  |
| Operation temperature min.           | -25 °C                |
| Ambient temp. operating max.         | +70 °C                |
| Storage temperature min.             | -40 °C                |
| Storage temperature max.             | +80 °C                |
| Environmental resistance             | acc. to IEC 60068-2   |
|                                      | -14, -30, -33 and -78 |
| Weight                               | 9 g                   |

### Approvals

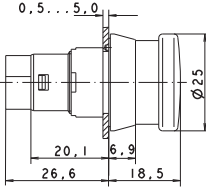
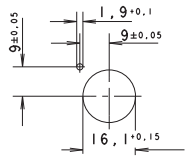

 IEC 60947-5-x,  
 60904, 60073


UL 508

**Typical accessories LUMOTAST 25 - Emergency stop pushbutton**

| Description                                                                               | Photo                                                                                | Order no.                | Additional accessories see page |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| Plug-in socket for PCB                                                                    |    | <b>5.00.645.036/0000</b> | 5 - 23                          |
| Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin) |    | <b>5.03.771.306/0000</b> | 5 - 22                          |
| Blanking cap complete with sealing disc and ring nut, square                              |    | <b>5.05.800.049/0100</b> | 2 - 100, 5 - 26                 |
| Label holder, flush, for square collar                                                    |    | <b>5.07.620.004/0000</b> | 2 - 96                          |
| Flat ribbon cable, 4-wire, 1 m long                                                       |    | 5.37.700.124/0000        | 5 - 23                          |
| Fixing spanner M 15, M 16                                                                 |    | 5.58.002.019/0105        | 5 - 21                          |
| Legend label 23 x 16 for label holder, without legend                                     |    | <b>5.73.111.000/0000</b> |                                 |
| Adhesive label yellow, round 16.1 / 60 mm, without legend                                 |    | 5.76.204.425/0400        |                                 |
| Adhesive label yellow, round 16.1 / 60 mm, with legend „Not-Aus“                          |  | 5.76.204.426/0400        |                                 |
| Adhesive label yellow, round 16.1 / 60 mm, with legend „ARRET-D'URGENCE“                  |  | 5.76.204.427/0400        |                                 |
| Adhesive label yellow, round 16.1 / 60 mm, with legend „EMERGENCY-STOP“                   |  | 5.76.204.428/0400        |                                 |
| Adhesive label yellow, round 16.1 / 60 mm, with legend „ARRESTO-D'EMERGENZA“              |  | 5.76.204.429/0400        |                                 |
| Socket connector, 4-pin                                                                   |  | <b>5.92.025.368/0000</b> | 5 - 22                          |

**LUMOTAST 25 - Emergency stop pushbutton, ring nut fixing**

|  |                          |  |                          |  |      |
|-------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------|------|
|                                                                                     |                          |                                                                                     |                          | Panel cut-out                                                                         |      |
| Contact function                                                                    | Contact arrangement      | Colour of collar                                                                    | Order no. complete       | Order no. single parts                                                                |      |
|                                                                                     |                          |                                                                                     |                          | Housing                                                                               | Lens |
| latching                                                                            | 2 NC (forcibly actuated) | black                                                                               | <b>1.15.154.006/0301</b> | -                                                                                     | -    |
| latching                                                                            | 2 NC (forcibly actuated) | yellow                                                                              | <b>1.15.154.016/0301</b> | -                                                                                     | -    |

Technical data see page 1 - 30

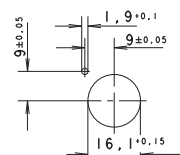
## LUMOTAST 25 - Signal lamp



Pict.: with red lens



with blue lens



Panel cut-out

### Technical Data

#### General information

|                |                 |
|----------------|-----------------|
| Form of lens   | square          |
| Colour of lens | see order block |

#### Dimensions

|                                    |         |
|------------------------------------|---------|
| Length of collar                   | 25 mm   |
| Width of collar                    | 25 mm   |
| Overall height                     | 9.8 mm  |
| Mounting depth with connector      | 30.7 mm |
| Mounting depth with plug-in socket | 33.4 mm |
| Mounting hole                      | 16.2 mm |

#### Mechanical design

|             |                                         |
|-------------|-----------------------------------------|
| Mounting    | see order block                         |
| Terminals   | pin connector<br>4-pol./ plug-in socket |
| Lamp socket | see order block                         |
| Lamp        | filament lamp / LED                     |

#### Electrical characteristics

|                    |       |
|--------------------|-------|
| Voltage limit max. | 24 V  |
| Power limit max.   | 0.7 W |

#### Other specifications

|                                      |        |
|--------------------------------------|--------|
| Degree of protection from front side | IP65   |
| Weight                               | 7 g    |
| Operation temperature min.           | -25 °C |
| Ambient temp. operating max.         | +70 °C |
| Storage temperature min.             | -40 °C |
| Storage temperature max.             | +80 °C |

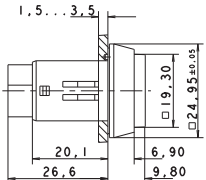
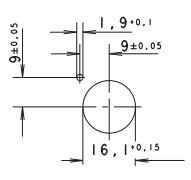
### Typical accessories LUMOTAST 25 - Signal lamp

| Description                             | Photo | Order no.                | Additional accessories see page |
|-----------------------------------------|-------|--------------------------|---------------------------------|
| Filament lamp, Bi-PinT 1¼ base, 12 V    |       | <b>1.90.180.474/0000</b> | 5 - 5                           |
| Filament lamp, Bi-PinT 1¼ base, 28 V    |       | <b>1.90.180.475/0000</b> | 5 - 5                           |
| LED Bi-PinT 1 superbright, red, 24 V    |       | <b>1.90.690.351/0000</b> | 5 - 15                          |
| LED Bi-PinT 1 superbright, green, 24 V  |       | <b>1.90.690.352/0000</b> | 5 - 15                          |
| LED Bi-PinT 1 superbright, yellow, 24 V |       | <b>1.90.690.353/0000</b> | 5 - 15                          |
| LED Bi-PinT 1 superbright, blue, 24 V   |       | <b>1.90.690.354/0000</b> | 5 - 15                          |
| LED Bi-PinT 1 superbright, white, 24 V  |       | <b>1.90.690.355/0000</b> | 5 - 15                          |
| LED Bi-PinT 1, red, 3 V                 |       | <b>1.90.691.026/0000</b> | 5 - 15                          |

**Typical accessories LUMOTAST 25 - Signal lamp**

| Description                                                                               | Photo                                                                                | Order no.                | Additional accessories see page |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| LED Bi-PinT 1, green, 3V                                                                  |    | <b>1.90.691.027/0000</b> | 5 - 15                          |
| LED Bi-PinT 1, yellow, 3V                                                                 |    | <b>1.90.691.028/0000</b> | 5 - 15                          |
| Plug-in socket for PCB                                                                    |    | <b>5.00.645.036/0000</b> | 5 - 23                          |
| Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin) |    | <b>5.03.771.306/0000</b> | 5 - 22                          |
| Disassembly tool for LUMOTAST 25, RAFIX 16                                                |    | <b>5.05.800.042/0000</b> | 2 - 94                          |
| Blanking cap complete with sealing disc and ring nut, square                              |    | <b>5.05.800.049/0100</b> | 2 - 100, 5 - 26                 |
| Label holder, flush, for square collar                                                    |    | <b>5.07.620.004/0000</b> | 2 - 96                          |
| Flat ribbon cable, 4-wire, 1 m long                                                       |    | <b>5.37.700.124/0000</b> | 5 - 23                          |
| Fixing spanner M 15, M 16                                                                 |   | <b>5.58.002.019/0105</b> | 5 - 21                          |
| Legend insert, blank, use only for transparent lenses                                     |  | <b>5.70.635.000/2000</b> |                                 |
| Legend label 23 x 16 for label holder, without legend                                     |  | <b>5.73.111.000/0000</b> |                                 |
| Socket connector, 4-pin                                                                   |  | <b>5.92.025.368/0000</b> | 5 - 22                          |

**LUMOTAST 25 - Signal lamp, 24 V, „Click“ quick-assembly feature**

| <div style="display: flex; justify-content: space-around; align-items: center;">    </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span>Pict.: with red lens</span> <span>Panel cut-out</span> </div> |                  |                |                        |                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------|------------------------|------------------------------------------------|
| Voltage limit max.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Power limit max. | Lamp socket    | Order no. without lens | Note                                           |
| 24 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.7 W            | Bi-PinT 1/T 1¼ | 1.65.122.906/0000      | Please include the desired lens in your order. |

Technical data see page 1 - 32

**Lenses:**

Lens, square, transparent colourless: 5.49.077.014/1002

Lens, square, transparent red: 5.49.077.014/1306

Lens, square, transparent yellow: 5.49.077.014/1403

Lens, square, transparent green: 5.49.077.014/1505

Lens, square, transparent blue: 5.49.077.014/1607

Do not press in lens in disassembled condition.

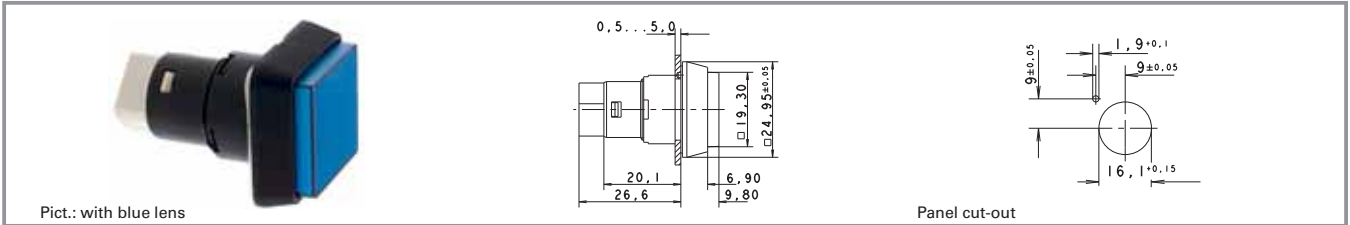
Note when using a LED: A notch on the lamp identifies the cathode side.

Pushbuttons

**Stock items** are marked  
by **bold printed order numbers.**

1

LUMOTAST 25 - Signal lamp, 24 V, ring nut fixing



| Voltage limit max. | Power limit max. | Lamp socket     | Order no. without lens | Note                                           |
|--------------------|------------------|-----------------|------------------------|------------------------------------------------|
| 24 V               | 0.7 W            | Bi-Pin T 1/T 1¼ | 1.65.122.956/0000      | Please include the desired lens in your order. |

LUMO  
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Technical data see page 1 - 32

- Lenses:**  
Lens, square, transparent colourless: 5.49.077.014/1002  
Lens, square, transparent red: 5.49.077.014/1306  
Lens, square, transparent yellow: 5.49.077.014/1403  
Lens, square, transparent green: 5.49.077.014/1505  
Lens, square, transparent blue: 5.49.077.014/1607

Do not press in lens in disassembled condition.  
Note when using LED: A notch on the lamp socket identifies the cathode side.



## General Data

### LUMOTAST 75 IP40 - Pushbutton range

Illuminated pushbuttons, signal lamps and keylock switches

- Mounting hole diameter 16.2 mm
- Degree of protection IP40
- Solder terminals for the following wire cross-sections:
  - Installed 0.5 mm<sup>2</sup> max.
  - Factory terminated 0.35 mm<sup>2</sup> max.
- 250 V/4 A max.
- 2 NC + 2 NO max. (3 NC + 3 NO on request)
- Lamp socket T 4.5

## Content

### LUMOTAST 75 IP40 - Illuminated pushbutton

|                                                                           |        |
|---------------------------------------------------------------------------|--------|
| LUMOTAST 75 IP40 - Illuminated pushbutton, protruding lens, round collar  | 1 - 36 |
| LUMOTAST 75 IP40 - Illuminated pushbutton, protruding lens, round collar  | 1 - 38 |
| LUMOTAST 75 IP40 - Illuminated pushbutton, flush lens, square collar      | 1 - 39 |
| LUMOTAST 75 IP40 - Illuminated pushbutton, flush lens, rectangular collar | 1 - 40 |
| LUMOTAST 75 IP40 - Illuminated pushbutton, protruding lens, square collar | 1 - 41 |

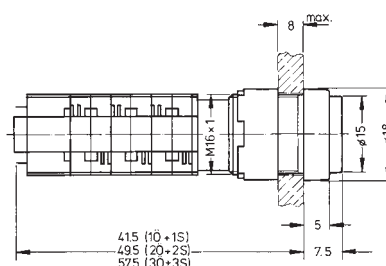
### LUMOTAST 75 IP40 - Keylock switch

|                                                       |        |
|-------------------------------------------------------|--------|
| LUMOTAST 75 IP40 - Keylock switch, round collar       | 1 - 42 |
| LUMOTAST 75 IP40 - Keylock switch, round collar       | 1 - 43 |
| LUMOTAST 75 IP40 - Keylock switch, rectangular collar | 1 - 44 |

### LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5

|                                                                                      |        |
|--------------------------------------------------------------------------------------|--------|
| LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5, round collar, protruding lens | 1 - 46 |
| LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5, round collar, protruding lens | 1 - 48 |
| LUMOTAST 75 IP40 - Signal lamp, square collar, flush lens                            | 1 - 48 |
| LUMOTAST 75 IP40 - Signal lamp, rectangular collar, flush lens                       | 1 - 49 |
| LUMOTAST 75 IP40 - Signal lamp, square collar, protruding lens                       | 1 - 49 |

## LUMOTAST 75 IP40 - Illuminated pushbutton



Mounting hole



### Technical Data

#### General information

|                  |                 |
|------------------|-----------------|
| Form of lens     | see order block |
| Form of collar   | see order block |
| Colour of collar | see order block |

#### Dimensions

|                    |                   |
|--------------------|-------------------|
| Length of collar   | see order block   |
| Width of collar    | see order block   |
| Diameter of collar | see order block   |
| Overall height     | 7.5 mm            |
| Mounting depth     | 41.5/49.5/57.5 mm |
| Mounting hole      | 16.2 mm           |

#### Mechanical design

|                     |                            |
|---------------------|----------------------------|
| Mounting            | ring nut                   |
| Terminals           | solder terminals           |
| Contact system      | snap-action bridge contact |
| Contact function    | see order block            |
| Contact arrangement | see order block            |
| Contact materials   | Ag                         |
| Illumination        | yes                        |
| Lamp socket         | T 4.5                      |

#### Mechanical characteristics

|                      |             |
|----------------------|-------------|
| Operating force max. | 3 ... 6.5 N |
| Operating travel     | 2.7 mm      |
| Switching travel NC  | 1.6 mm      |
| Switching travel NO  | 0.9 mm      |
| Robustness min.      | 100 N       |

#### Electrical characteristics

|                                      |        |
|--------------------------------------|--------|
| Rated voltage AC max.                | 250 V  |
| Rated voltage DC max.                | 220 V  |
| Rated voltage AC/DC min.             | 12 V   |
| Rated current AC max.                | 4 A    |
| Rated current DC max.                | 0.2 A  |
| Rated current AC/DC min.             | 5 mA   |
| Contact resistance acc. to life max. | 200 mΩ |
| Protection class                     | II     |

#### Other specifications

|                                                |                                              |
|------------------------------------------------|----------------------------------------------|
| Operating life, at 250 V/2 A (operations)      | 200,000 (momentary)                          |
| Operating life, at 250 V/4 A (operations)      | 60,000 (momentary),<br>10,000 (latching)     |
| Degree of protection from front side           | IP40                                         |
| Operation temperature min.                     | -25 °C                                       |
| Ambient temp. operating max. without lamp /LED | +70 °C                                       |
| Ambient temp. operating max. with lamp /LED    | +55 °C                                       |
| Storage temperature min.                       | -40 °C                                       |
| Storage temperature max.                       | +80 °C                                       |
| Environmental resistance                       | acc. to IEC 60068-2<br>-14, -30, -33 and -78 |
| Flame class acc. to UL 94                      | V 1                                          |
| Hot wire ignition acc. to IEC 60695-2-1        | yes                                          |

#### Approvals



UL 508



C22.2 No. 14-M91

**Typical accessories LUMOTAST 75 IP40 - Illuminated pushbutton**

| Description                                                      | Photo                                                                               | Order no.                | Additional accessories see page |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| Filament lamp, T 4.5 base, 12 V                                  |    | <b>1.90.100.022/0000</b> | 5 - 6                           |
| Filament lamp, T 4.5 base, 24 V                                  |    | <b>1.90.100.023/0000</b> | 5 - 6                           |
| LED T 4.5 superbright, red, 24 V                                 |    | <b>1.90.690.331/0000</b> | 5 - 16                          |
| LED T 4.5 superbright, green, 24 V                               |    | <b>1.90.690.332/0000</b> | 5 - 16                          |
| LED T 4.5 superbright, yellow, 24 V                              |    | <b>1.90.690.333/0000</b> | 5 - 16                          |
| LED T 4.5 superbright, blue, 24 V                                |    | <b>1.90.690.334/0000</b> | 5 - 16                          |
| LED T 4.5 superbright, white, 24 V                               |    | <b>1.90.690.335/0000</b> | 5 - 16                          |
| LED T 4.5, red, 2-3 V (use external resistor)                    |    | <b>1.90.692.001/0000</b> | 5 - 16                          |
| LED T 4.5, green, 2-3 V (use external resistor)                  |  | <b>1.90.692.002/0000</b> | 5 - 16                          |
| LED T 4.5, yellow, 2-3 V (use external resistor)                 |  | <b>1.90.692.003/0000</b> | 5 - 16                          |
| Lamp extractor for lamp diameter 4 mm                            |  | <b>1.90.900.002/0000</b> | 5 - 5, 5 - 6, 5 - 20            |
| Lamp extractor for lamp diameter 5-6 mm                          |  | <b>1.90.900.004/0000</b> | 5 - 16, 5 - 20                  |
| Protective cap (for 18 x 24 collar)                              |  | 5.05.800.027/0000        | 5 - 24                          |
| Blanking cap, black, to cover spare holes, dimensions 18 x 18 mm |  | 5.52.006.020/0103        | 5 - 26                          |
| Blanking cap, black, to cover spare holes, dimensions 18 x 24 mm |  | 5.52.006.021/0100        | 5 - 26                          |
| Blanking cap, black, to cover spare holes, round 18 mm           |  | 5.52.006.022/0100        | 5 - 26                          |
| Fixing spanner M 15, M 16                                        |  | 5.58.002.019/0105        | 5 - 21                          |

1

LUMO  
75 (40)

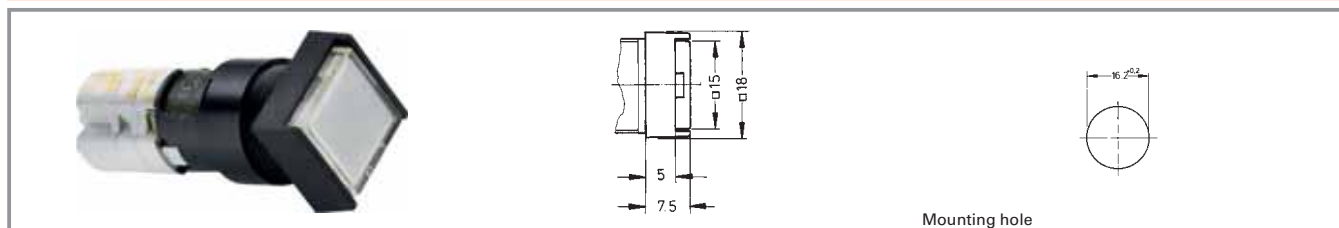
# 1



Technical data see page 1 - 36

Lens, round, transparent colourless, for filament lamp or LED: **5.49.257.011/1002**  
 Lens, round, transparent red, for LED: **5.49.257.011/1301**  
 Lens, round, transparent red, for filament lamp: **5.49.257.011/1303**  
 Lens, round, transparent yellow, for filament lamp or LED: **5.49.257.011/1402**  
 Lens, round, transparent green, for filament lamp: **5.49.257.011/1502**  
 Lens, round, transparent green, for LED: **5.49.257.011/1503**  
 Lens, round, transparent blue, for filament lamp: **5.49.257.011/1601**

Diffuser, round, for filament lamp, without legend: **5.72.050.000/0202**  
Diffuser, round, for LED, without legend: **5.72.050.000/0214**

**LUMOTAST 75 IP40 - Illuminated pushbutton, flush lens, square collar**


Mounting hole

| Contact arrangement | Contact function | Colour of collar | Order no. without lens   | Note                                                        |
|---------------------|------------------|------------------|--------------------------|-------------------------------------------------------------|
| 1 NC + 1 NO         | momentary        | black            | <b>1.15.108.251/0000</b> | Please include the desired lens and diffuser in your order. |
| 1 NC + 1 NO         | latching         | black            | <b>1.15.108.351/0000</b> | Please include the desired lens and diffuser in your order. |
| 2 NC + 2 NO         | momentary        | black            | <b>1.15.108.252/0000</b> | Please include the desired lens and diffuser in your order. |
| 2 NC + 2 NO         | latching         | black            | <b>1.15.108.352/0000</b> | Please include the desired lens and diffuser in your order. |

**LUMO  
75 (40)**

Technical data see page 1 - 36

**Lenses:**

 Lens, square, transparent colourless, for filament lamp or LED: **5.49.275.036/1002**

 Lens, square, transparent red, for LED: **5.49.275.036/1301**

 Lens, square, transparent red, for filament lamp: **5.49.275.036/1303**

 Lens, square, transparent yellow, for filament lamp or LED: **5.49.275.036/1402**

 Lens, square, transparent green, for filament lamp: **5.49.275.036/1502**

 Lens, square, transparent green, for LED: **5.49.275.036/1503**

 Lens, square, transparent blue, for filament lamp: **5.49.275.036/1601**
**Accessoires:**

Sealing cap IP65 (for 18 x 18 collar): 5.05.200.009/0000

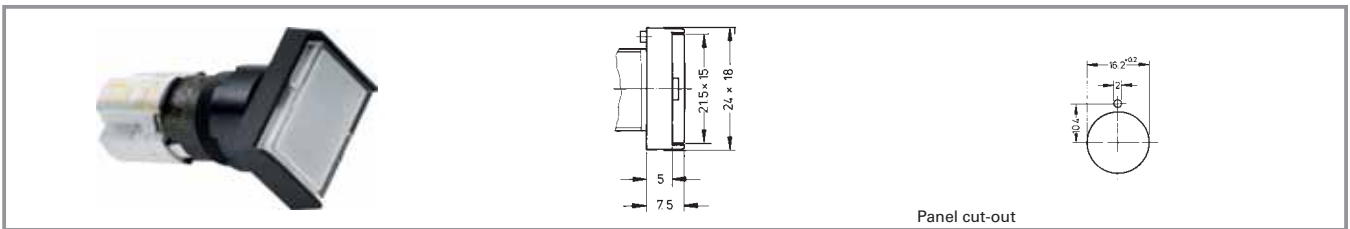
Protective cap (for 18 x 18 collar): 5.05.800.030/0000

 Diffuser, square, for filament lamp, without legend: **5.73.013.000/0202**

 Diffuser, square, for LED, without legend: **5.73.013.000/0214**

1

## LUMOTAST 75 IP40 - Illuminated pushbutton, flush lens, rectangular collar



| Contact arrangement | Contact function | Colour of collar | Order no. without lens   | Note                                                        |
|---------------------|------------------|------------------|--------------------------|-------------------------------------------------------------|
| 1 NC + 1 NO         | momentary        | black            | <b>1.15.108.051/0000</b> | Please include the desired lens and diffuser in your order. |
| 1 NC + 1 NO         | latching         | black            | <b>1.15.108.151/0000</b> | Please include the desired lens and diffuser in your order. |
| 2 NC + 2 NO         | momentary        | black            | <b>1.15.108.052/0000</b> | Please include the desired lens and diffuser in your order. |
| 2 NC + 2 NO         | latching         | black            | <b>1.15.108.152/0000</b> | Please include the desired lens and diffuser in your order. |

Technical data see page 1 - 36

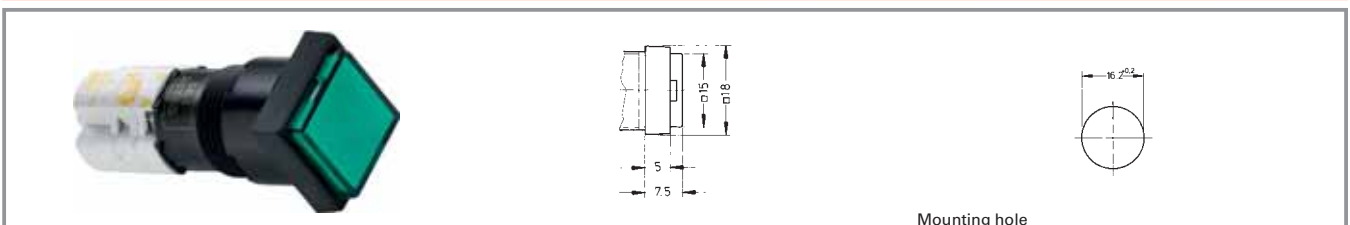
### Lenses:

- Lens, rectangular, transparent colourless, for filament lamp or LED: **5.49.275.032/1002**
- Lens, rectangular, transparent red, for LED: **5.49.275.032/1301**
- Lens, rectangular, transparent red, for filament lamp: **5.49.275.032/1303**
- Lens, rectangular, transparent yellow, for filament lamp or LED: **5.49.275.032/1402**
- Lens, rectangular, transparent green, for filament lamp: **5.49.275.032/1502**
- Lens, rectangular, transparent green, for LED: **5.49.275.032/1503**
- Lens, rectangular, transparent blue, for filament lamp: **5.49.275.032/1601**

### Accessoires:

- Sealing cap IP65 (for 18 x 24 collar): 5.05.200.008/0000
- Protective cap (for 18 x 24 collar): 5.05.800.027/0000
- Diffuser, rectangular, for filament lamp, without legend: **5.73.012.000/0202**
- Diffuser, rectangular, for LED, without legend: **5.73.012.000/0214**

## LUMOTAST 75 IP40 - Illuminated pushbutton, protruding lens, square collar



| Contact arrangement | Contact function | Colour of collar | Order no. without lens | Note                                                        |
|---------------------|------------------|------------------|------------------------|-------------------------------------------------------------|
| 1 NC + 1 NO         | momentary        | black            | 1.15.108.256/0000      | Please include the desired lens and diffuser in your order. |
| 1 NC + 1 NO         | latching         | black            | 1.15.108.356/0000      | Please include the desired lens and diffuser in your order. |
| 2 NC + 2 NO         | momentary        | black            | 1.15.108.257/0000      | Please include the desired lens and diffuser in your order. |
| 2 NC + 2 NO         | latching         | black            | 1.15.108.357/0000      | Please include the desired lens and diffuser in your order. |

Technical data see page 1 - 36

- Lenses:**  
Lens, square, transparent colourless, for filament lamp or LED: **5.49.275.036/1002**  
Lens, square, transparent red, for LED: **5.49.275.036/1301**  
Lens, square, transparent red, for filament lamp: **5.49.275.036/1303**  
Lens, square, transparent yellow, for filament lamp or LED: **5.49.275.036/1402**  
Lens, square, transparent green, for filament lamp: **5.49.275.036/1502**  
Lens, square, transparent green, for LED: **5.49.275.036/1503**  
Lens, square, transparent blue, for filament lamp: **5.49.275.036/1601**

- Accessoires:**  
Sealing cap IP65 (for 18 x 18 collar): 5.05.200.009/0000  
Protective cap (for 18 x 18 collar): 5.05.800.030/0000  
Diffuser, square, for filament lamp, without legend: **5.73.013.000/0202**  
Diffuser, square, for LED, without legend: **5.73.013.000/0214**

# LUMOTAST 75 IP40 - Keylock switch



Mounting hole

## Technical Data

LUMO  
75 (40)

### General information

|                  |                 |
|------------------|-----------------|
| Form of lens     | see order block |
| Colour of collar | see order block |
| Form of collar   | see order block |

### Dimensions

|                              |                 |
|------------------------------|-----------------|
| Length of collar             | see order block |
| Diameter of collar           | see order block |
| Width of collar              | see order block |
| Overall height (without key) | 7.5 mm          |
| Mounting depth               | see order block |
| Mounting hole                | 16.2 mm         |

### Mechanical design

|                             |                            |
|-----------------------------|----------------------------|
| Mounting                    | ring nut                   |
| Terminals                   | solder terminals           |
| Contact system              | snap-action bridge contact |
| Contact function            | see order block            |
| Contact arrangement         | see order block            |
| Contact materials           | Ag                         |
| Illumination                | no                         |
| Lock                        | cylinder lock              |
| Wafers                      | 4 pins                     |
| Lock type                   | 1D 21                      |
| Number of locking positions | 45                         |
| Main key                    | no                         |
| Symmetric key               | no                         |
| Key removal position        | see order block            |

### Mechanical characteristics

|                |                 |
|----------------|-----------------|
| Rotating angle | see order block |
|----------------|-----------------|

### Electrical characteristics

|                                      |        |
|--------------------------------------|--------|
| Rated voltage AC max.                | 250 V  |
| Rated voltage DC max.                | 220 V  |
| Rated voltage AC/DC min.             | 12 V   |
| Rated current AC max.                | 4 A    |
| Rated current DC max.                | 0.02 A |
| Rated current AC/DC min.             | 5 mA   |
| Contact resistance acc. to life max. | 200 mΩ |
| Bouncing time max.                   | 10 ms  |
| ESD-strength min.                    | 14 kV  |

### Other specifications

|                                           |                                           |
|-------------------------------------------|-------------------------------------------|
| Operating life, at 250 V/2 A (operations) | 50,000 (momentary)                        |
| Operating life, at 250 V/4 A (operations) | 50,000 (momentary)                        |
| Degree of protection from front side      | IP40                                      |
| Operation temperature min.                | -25 °C                                    |
| Ambient temp. operating max.              | +70 °C                                    |
| Storage temperature min.                  | -40 °C                                    |
| Storage temperature max.                  | +80 °C                                    |
| Environmental resistance                  | acc. to IEC 60068-2 -14, -30, -33 and -78 |
| Weight                                    | 35 g                                      |
| Flame class acc. to UL 94                 | V 1                                       |
| Hot wire ignition acc. to IEC 60695-2-1   | yes                                       |

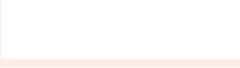
## Approvals



UL 508

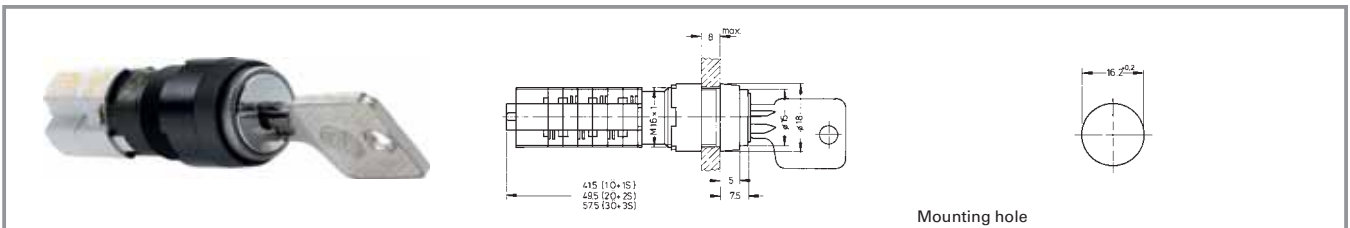
C22.2 No. 14-M91

## Typical accessories LUMOTAST 75 IP40 - Keylock switch

| Description                                                      | Photo                                                                              | Order no.         | Additional accessories see page |
|------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------|---------------------------------|
| Blanking cap, black, to cover spare holes, dimensions 18 x 24 mm |  | 5.52.006.021/0100 | 5 - 26                          |
| Blanking cap, black, to cover spare holes, round 18 mm           |  | 5.52.006.022/0100 | 5 - 26                          |
| Fixing spanner M 15, M 16                                        |  | 5.58.002.019/0105 | 5 - 21                          |
| Keylock switch cap                                               |  | 5.58.002.030/0000 |                                 |
| LUMOTAST 75 - Spare key (1 piece)                                |  | 5.58.004.721/0000 |                                 |

## LUMOTAST 75 IP40 - Keylock switch, round collar

LUMO  
75 (40)



| Contact arrangement | Contact function | Rotating angle | Key removal position |                                                                                     | Colour of collar | Order no.         |
|---------------------|------------------|----------------|----------------------|-------------------------------------------------------------------------------------|------------------|-------------------|
| 1 NC + 1 NO         | latching         | 90°            | 0                    |  | black            | 1.15.108.851/0000 |
| 1 NC + 1 NO         | latching         | 90°            | 0+1                  |  | black            | 1.15.108.911/0000 |
| 1 NC + 1 NO         | momentary        | 45°            | 0                    |  | black            | 1.15.108.941/0000 |
| 2 NC + 2 NO         | latching         | 90°            | 0                    |  | black            | 1.15.108.852/0000 |
| 2 NC + 2 NO         | latching         | 90°            | 0+1                  |  | black            | 1.15.108.912/0000 |

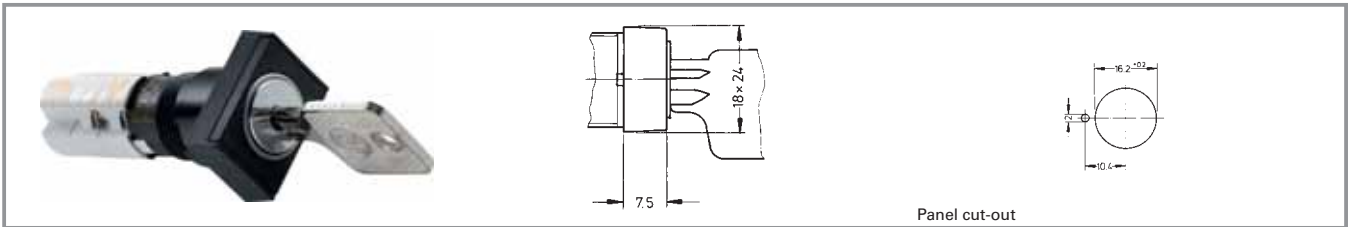
Technical data see page 1 - 42

Included: 2 keys.

Other lock variants and contacts available on request.

1

LUMOTAST 75 IP40 - Keylock switch, rectangular collar



| Contact arrange-<br>ment | Contact function | Rotating angle | Key removal position |  | Colour of collar | Order no.         |
|--------------------------|------------------|----------------|----------------------|--|------------------|-------------------|
| 1 NC + 1 NO              | latching         | 90°            | 0                    |  | black            | 1.15.108.571/0100 |
| 1 NC + 1 NO              | latching         | 90°            | 0+1                  |  | black            | 1.15.108.631/0100 |
| 1 NC + 1 NO              | momentary        | 45°            | 0                    |  | black            | 1.15.108.661/0100 |
| 2 NC + 2 NO              | latching         | 90°            | 0                    |  | black            | 1.15.108.572/0100 |
| 2 NC + 2 NO              | latching         | 90°            | 0+1                  |  | black            | 1.15.108.632/0100 |

Technical data see page 1 - 42

Included: 2 keys.

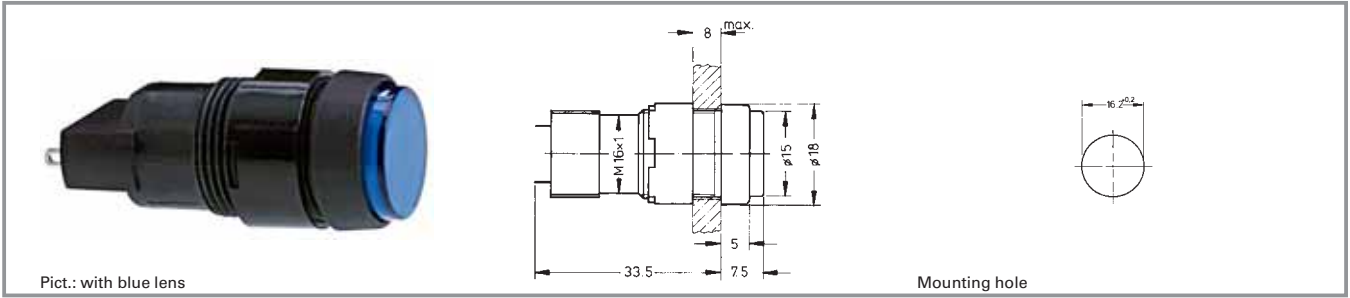
Other lock variants and contacts available on request.

LUMO  
75 (40)



1

LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5



Technical Data

General information

|                  |                 |
|------------------|-----------------|
| Form of lens     | see order block |
| Form of collar   | see order block |
| Colour of collar | see order block |

Dimensions

|                    |                 |
|--------------------|-----------------|
| Length of collar   | see order block |
| Width of collar    | see order block |
| Diameter of collar | see order block |
| Overall height     | 7.5 mm          |
| Mounting depth     | 33.5 mm         |
| Mounting hole      | 16.2 mm         |

Mechanical design

|             |                     |
|-------------|---------------------|
| Mounting    | ring nut            |
| Terminals   | solder terminals    |
| Lamp socket | T 4.5               |
| Lamp        | filament lamp / LED |

Electrical characteristics

|                    |       |
|--------------------|-------|
| Voltage limit max. | 35 V  |
| Power limit max.   | 1.2 W |

Other specifications

|                                      |                                              |
|--------------------------------------|----------------------------------------------|
| Degree of protection from front side | IP40                                         |
| Weight                               | 5 g                                          |
| Operation temperature min.           | -25 °C                                       |
| Ambient temp. operating max.         | +55 °C                                       |
| Storage temperature min.             | -40 °C                                       |
| Storage temperature max.             | +80 °C                                       |
| Environmental resistance             | acc. to IEC 60068-2<br>-14, -30, -33 and -78 |

LUMO  
75 (40)

Approvals



UL 508



C22.2 No. 14-M91

Typical accessories LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5

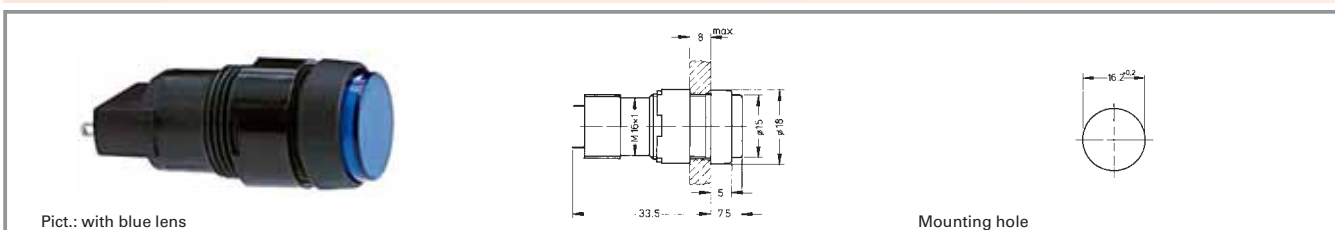
| Description                      | Photo | Order no.                | Additional accessories see page |
|----------------------------------|-------|--------------------------|---------------------------------|
| Filament lamp, T 4.5 base, 12 V  |       | <b>1.90.100.022/0000</b> | 5 - 6                           |
| Filament lamp, T 4.5 base, 24 V  |       | <b>1.90.100.023/0000</b> | 5 - 6                           |
| LED T 4.5 superbright, red, 24 V |       | <b>1.90.690.331/0000</b> | 5 - 16                          |

**Typical accessories LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5**

| Description                                                      | Photo                                                                               | Order no.                | Additional accessories see page |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| LED T 4.5 superbright, green, 24 V                               |    | <b>1.90.690.332/0000</b> | 5 - 16                          |
| LED T 4.5 superbright, yellow, 24 V                              |    | <b>1.90.690.333/0000</b> | 5 - 16                          |
| LED T 4.5 superbright, blue, 24 V                                |    | <b>1.90.690.334/0000</b> | 5 - 16                          |
| LED T 4.5 superbright, white, 24 V                               |    | <b>1.90.690.335/0000</b> | 5 - 16                          |
| LED T 4.5, red, 2-3 V (use external resistor)                    |    | <b>1.90.692.001/0000</b> | 5 - 16                          |
| LED T 4.5, green, 2-3 V (use external resistor)                  |    | <b>1.90.692.002/0000</b> | 5 - 16                          |
| LED T 4.5, yellow, 2-3 V (use external resistor)                 |    | <b>1.90.692.003/0000</b> | 5 - 16                          |
| Blanking cap, black, to cover spare holes, dimensions 18 x 18 mm |   | 5.52.006.020/0103        | 5 - 26                          |
| Blanking cap, black, to cover spare holes, dimensions 18 x 24 mm |  | 5.52.006.021/0100        | 5 - 26                          |
| Blanking cap, black, to cover spare holes, round 18 mm           |  | 5.52.006.022/0100        | 5 - 26                          |
| Fixing spanner M 15, M 16                                        |  | 5.58.002.019/0105        | 5 - 21                          |

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LUMO  
75 (40)

**LUMOTAST 75 IP40 - Signal lamp with lamp socket T 4.5, round collar, protruding lens**


| Voltage limit max. | Power limit max. | Lamp socket | Colour of collar | Order no. without lens   | Note                                                        |
|--------------------|------------------|-------------|------------------|--------------------------|-------------------------------------------------------------|
| 35 V               | 1.2 W            | T 4.5       | black            | <b>1.65.111.071/0000</b> | Please include the desired lens and diffuser in your order. |

Technical data see page 1 - 46

**Lenses:**

 Lens, round, transparent colourless, for filament lamp or LED: **5.49.257.011/1002**

 Lens, round, transparent red, for LED: **5.49.257.011/1301**

 Lens, round, transparent red, for filament lamp: **5.49.257.011/1303**

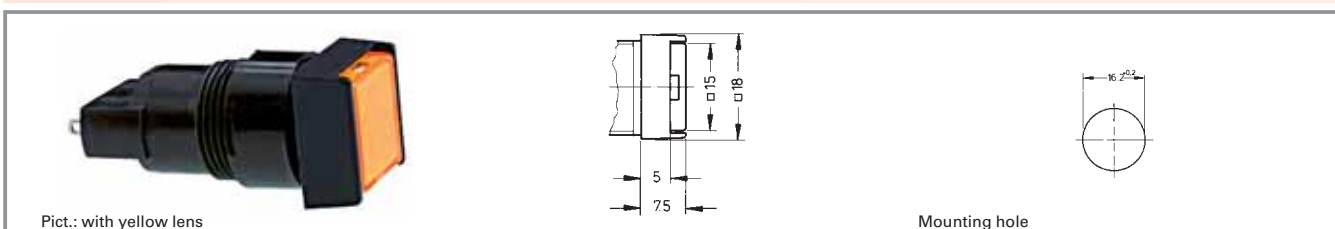
 Lens, round, transparent yellow, for filament lamp or LED: **5.49.257.011/1402**

 Lens, round, transparent green, for filament lamp: **5.49.257.011/1502**

 Lens, round, transparent green, for LED: **5.49.257.011/1503**

 Lens, round, transparent blue, for filament lamp: **5.49.257.011/1601**
**Accessoires:**

 Diffuser, round, for filament lamp, without legend: **5.72.050.000/0202**

 Diffuser, round, for LED, without legend: **5.72.050.000/0214**
**LUMOTAST 75 IP40 - Signal lamp, square collar, flush lens**


| Voltage limit max. | Power limit max. | Lamp socket | Colour of collar | Order no. without lens   | Note                                                        |
|--------------------|------------------|-------------|------------------|--------------------------|-------------------------------------------------------------|
| 35 V               | 1.2 W            | T 4.5       | black            | <b>1.65.111.061/0000</b> | Please include the desired lens and diffuser in your order. |

Technical data see page 1 - 46

**Lenses:**

 Lens, square, transparent colourless, for filament lamp or LED: **5.49.275.036/1002**

 Lens, square, transparent red, for LED: **5.49.275.036/1301**

 Lens, square, transparent red, for filament lamp: **5.49.275.036/1303**

 Lens, square, transparent yellow, for filament lamp or LED: **5.49.275.036/1402**

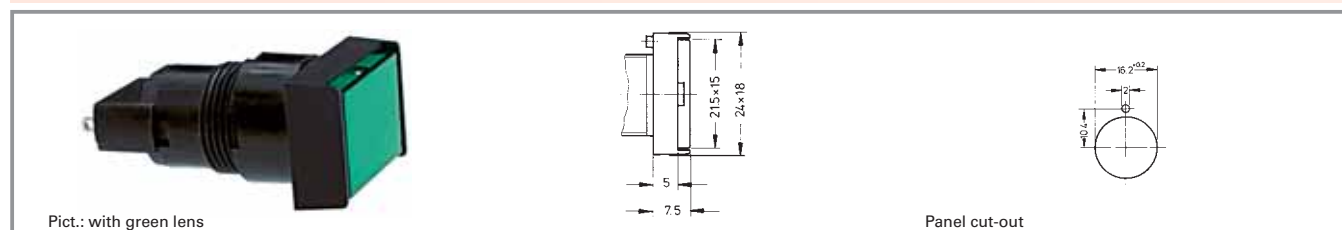
 Lens, square, transparent green, for filament lamp: **5.49.275.036/1502**

 Lens, square, transparent green, for LED: **5.49.275.036/1503**

 Lens, square, transparent blue, for filament lamp: **5.49.275.036/1601**
**Accessoires:**

 Diffuser, square, for filament lamp, without legend: **5.73.013.000/0202**

 Diffuser, square, for LED, without legend: **5.73.013.000/0214**

**LUMOTAST 75 IP40 - Signal lamp, rectangular collar, flush lens**


Pict.: with green lens

Panel cut-out

| Voltage limit max. | Power limit max. | Lamp socket | Colour of collar | Order no. without lens   | Note                                                        |
|--------------------|------------------|-------------|------------------|--------------------------|-------------------------------------------------------------|
| 35 V               | 1.2 W            | T 4.5       | black            | <b>1.65.111.051/0000</b> | Please include the desired lens and diffuser in your order. |

Technical data see page 1 - 46

**Lenses:**

 Lens, rectangular, transparent colourless, for filament lamp or LED: **5.49.275.032/1002**

 Lens, rectangular, transparent red, for LED: **5.49.275.032/1301**

 Lens, rectangular, transparent red, for filament lamp: **5.49.275.032/1303**

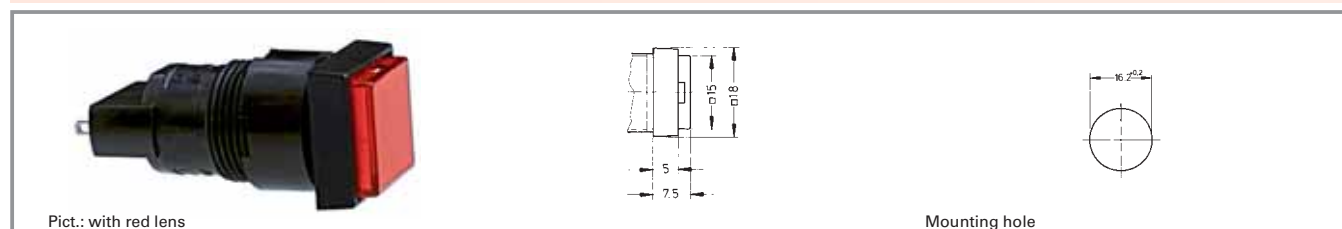
 Lens, rectangular, transparent yellow, for filament lamp or LED: **5.49.275.032/1402**

 Lens, rectangular, transparent green, for filament lamp: **5.49.275.032/1502**

 Lens, rectangular, transparent green, for LED: **5.49.275.032/1503**

 Lens, rectangular, transparent blue, for filament lamp: **5.49.275.032/1601**
**Accessoires:**

 Diffuser, rectangular, for filament lamp, without legend: **5.73.012.000/0202**

 Diffuser, rectangular, for LED, without legend: **5.73.012.000/0214**
**LUMO  
75 (40)**
**LUMOTAST 75 IP40 - Signal lamp, square collar, protruding lens**


Pict.: with red lens

Mounting hole

| Voltage limit max. | Power limit max. | Lamp socket | Colour of collar | Order no. without lens   | Note                                                        |
|--------------------|------------------|-------------|------------------|--------------------------|-------------------------------------------------------------|
| 35 V               | 1.2 W            | T 4.5       | black            | <b>1.65.111.081/0000</b> | Please include the desired lens and diffuser in your order. |

Technical data see page 1 - 46

**Lenses:**

 Lens, square, transparent colourless, for filament lamp or LED: **5.49.275.036/1002**

 Lens, square, transparent red, for LED: **5.49.275.036/1301**

 Lens, square, transparent red, for filament lamp: **5.49.275.036/1303**

 Lens, square, transparent yellow, for filament lamp or LED: **5.49.275.036/1402**

 Lens, square, transparent green, for filament lamp: **5.49.275.036/1502**

 Lens, square, transparent green, for LED: **5.49.275.036/1503**

 Lens, square, transparent blue, for filament lamp: **5.49.275.036/1601**
**Accessoires:**

 Diffuser, square, for filament lamp, without legend: **5.73.013.000/0202**

 Diffuser, square, for LED, without legend: **5.73.013.000/0214**





## General Data

### LUMOTAST 75 IP65 - Pushbutton range

Illuminated pushbuttons and signal lamps with lamp socket T 4.5

- Mounting hole diameter 16.2 mm
- Degree of protection IP65
- Solder terminals for the following wire cross-sections:
  - Installed 0.5 mm<sup>2</sup> max.
  - Factory terminated 0.35 mm<sup>2</sup> max.
- 250 V/4 A max.
- 2 NC + 2 NO max. (3 NC + 3 NO on request)

LUMO  
75 (65)

## Content

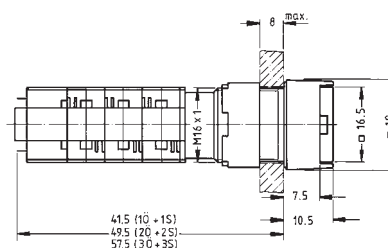
### LUMOTAST 75 IP65 - Illuminated pushbutton

|                                                                                |        |
|--------------------------------------------------------------------------------|--------|
| LUMOTAST 75 IP65 - Illuminated pushbutton, flush lens, square collar           | 1 - 52 |
| LUMOTAST 75 IP65 - Illuminated pushbutton, protruding lens, square collar      | 1 - 54 |
| LUMOTAST 75 IP65 - Illuminated pushbutton, flush lens, round collar            | 1 - 55 |
| LUMOTAST 75 IP65 - Illuminated pushbutton, protruding lens, round collar       | 1 - 56 |
| LUMOTAST 75 IP65 - Illuminated pushbutton, flush lens, rectangular collar      | 1 - 57 |
| LUMOTAST 75 IP65 - Illuminated pushbutton, protruding lens, rectangular collar | 1 - 58 |

### LUMOTAST 75 IP65 - Signal lamp

|                                                                     |        |
|---------------------------------------------------------------------|--------|
| LUMOTAST 75 IP65 - Signal lamp, flush lens, square collar           | 1 - 60 |
| LUMOTAST 75 IP65 - Signal lamp, protruding lens, square collar      | 1 - 62 |
| LUMOTAST 75 IP65 - Signal lamp, flush lens, round collar            | 1 - 62 |
| LUMOTAST 75 IP65 - Signal lamp, protruding lens, round collar       | 1 - 63 |
| LUMOTAST 75 IP65 - Signal lamp, flush lens, rectangular collar      | 1 - 63 |
| LUMOTAST 75 IP65 - Signal lamp, protruding lens, rectangular collar | 1 - 64 |

## LUMOTAST 75 IP65 - Illuminated pushbutton



Mounting hole



### Technical Data

#### General information

|                  |                 |
|------------------|-----------------|
| Form of lens     | see order block |
| Colour of lens   | see order block |
| Form of collar   | see order block |
| Colour of collar | black           |

#### Dimensions

|                    |                 |
|--------------------|-----------------|
| Length of collar   | see order block |
| Diameter of collar | see order block |
| Width of collar    | see order block |
| Overall height     | 10.5 mm         |
| Mounting depth     | see order block |
| Mounting hole      | 16.2 mm         |

#### Mechanical design

|                     |                            |
|---------------------|----------------------------|
| Mounting            | ring nut                   |
| Terminals           | solder terminals           |
| Contact system      | snap-action bridge contact |
| Contact function    | see order block            |
| Contact arrangement | see order block            |
| Contact materials   | Ag                         |
| Illumination        | yes                        |
| Lamp socket         | T 4.5                      |

#### Mechanical characteristics

|                     |             |
|---------------------|-------------|
| Operating force     | 3 ... 6.5 N |
| Operating travel    | 2.5 mm      |
| Switching travel NC | 1.8 mm      |
| Switching travel NO | 0.9 mm      |
| Robustness min.     | 100 N       |

#### Electrical characteristics

|                                      |        |
|--------------------------------------|--------|
| Rated voltage AC max.                | 250 V  |
| Rated voltage DC max.                | 220 V  |
| Rated voltage AC/DC min.             | 12 V   |
| Rated current AC max.                | 4 A    |
| Rated current DC max.                | 0.2 A  |
| Rated current AC/DC min.             | 5 mA   |
| Contact resistance acc. to life max. | 200 mΩ |
| Protection class                     | II     |
| ESD-strength min.                    | 14 kV  |

#### Other specifications

|                                                |                                           |
|------------------------------------------------|-------------------------------------------|
| Operating life, at 250 V/2 A (operations)      | 200,000 (momentary), 50,000 (latching)    |
| Operating life, at 250 V/4 A (operations)      | 60,000 (momentary)                        |
| Degree of protection from front side           | IP65                                      |
| Operation temperature min.                     | -25 °C                                    |
| Ambient temp. operating max. without lamp /LED | +70 °C                                    |
| Ambient temp. operating max. with lamp /LED    | +55 °C                                    |
| Storage temperature min.                       | -40 °C                                    |
| Storage temperature max.                       | +80 °C                                    |
| Environmental resistance                       | acc. to IEC 60068-2 -14, -30, -33 and -78 |
| Weight                                         | 15 g                                      |
| Flame class acc. to UL 94                      | V 0                                       |
| Hot wire ignition acc. to IEC 60695-2-1        | yes                                       |

#### Approvals



UL 508



C22.2 No. 14-M91

**Typical accessories LUMOTAST 75 IP65 - Illuminated pushbutton**

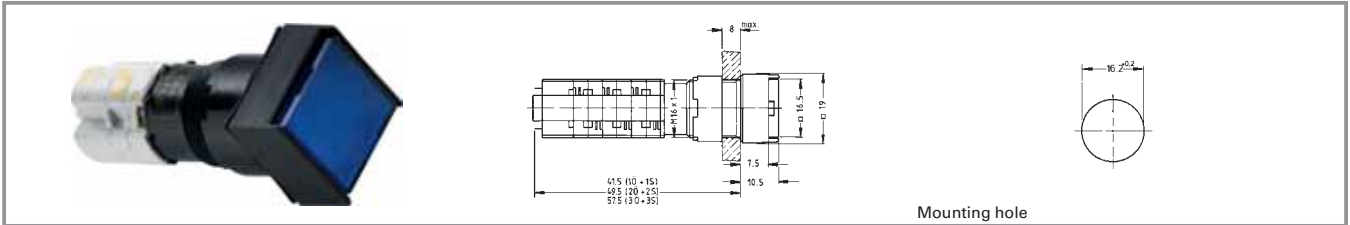
| Description                                                      | Photo                                                                               | Order no.                | Additional accessories see page |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| Filament lamp, T 4.5 base, 12 V                                  |    | <b>1.90.100.022/0000</b> | 5 - 6                           |
| Filament lamp, T 4.5 base, 24 V                                  |    | <b>1.90.100.023/0000</b> | 5 - 6                           |
| LED T 4.5 superbright, red, 24 V                                 |    | <b>1.90.690.331/0000</b> | 5 - 16                          |
| LED T 4.5 superbright, green, 24 V                               |    | <b>1.90.690.332/0000</b> | 5 - 16                          |
| LED T 4.5 superbright, yellow, 24 V                              |    | <b>1.90.690.333/0000</b> | 5 - 16                          |
| LED T 4.5 superbright, blue, 24 V                                |    | <b>1.90.690.334/0000</b> | 5 - 16                          |
| LED T 4.5 superbright, white, 24 V                               |    | <b>1.90.690.335/0000</b> | 5 - 16                          |
| LED T 4.5, red, 2-3 V (use external resistor)                    |    | <b>1.90.692.001/0000</b> | 5 - 16                          |
| LED T 4.5, green, 2-3 V (use external resistor)                  |  | <b>1.90.692.002/0000</b> | 5 - 16                          |
| LED T 4.5, yellow, 2-3 V (use external resistor)                 |  | <b>1.90.692.003/0000</b> | 5 - 16                          |
| Lamp extractor for lamp diameter 4 mm                            |  | <b>1.90.900.002/0000</b> | 5 - 5, 5 - 6, 5 - 20            |
| Lamp extractor for lamp diameter 5-6 mm                          |  | <b>1.90.900.004/0000</b> | 5 - 16, 5 - 20                  |
| Protective cap (for 18 x 24 collar)                              |  | 5.05.800.027/0000        | 5 - 24                          |
| Blanking cap, black, to cover spare holes, dimensions 18 x 18 mm |  | 5.52.006.020/0103        | 5 - 26                          |
| Blanking cap, black, to cover spare holes, dimensions 18 x 24 mm |  | 5.52.006.021/0100        | 5 - 26                          |
| Blanking cap, black, to cover spare holes, round 18 mm           |  | 5.52.006.022/0100        | 5 - 26                          |
| Fixing spanner M 15, M 16                                        |  | 5.58.002.019/0105        | 5 - 21                          |

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LUMO  
75 (65)

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## LUMOTAST 75 IP65 - Illuminated pushbutton, flush lens, square collar



| Contact arrangement | Contact function | Colour of collar | Order no. without lens   | Note                                           |
|---------------------|------------------|------------------|--------------------------|------------------------------------------------|
| 1 NC + 1 NO         | momentary        | black            | <b>1.15.108.276/0000</b> | Please include the desired lens in your order. |
| 1 NC + 1 NO         | latching         | black            | <b>1.15.108.376/0000</b> | Please include the desired lens in your order. |
| 2 NC + 2 NO         | momentary        | black            | <b>1.15.108.277/0000</b> | Please include the desired lens in your order. |
| 2 NC + 2 NO         | latching         | black            | <b>1.15.108.377/0000</b> | Please include the desired lens in your order. |

LUMO  
75 (65)

Technical data see page 1 - 52

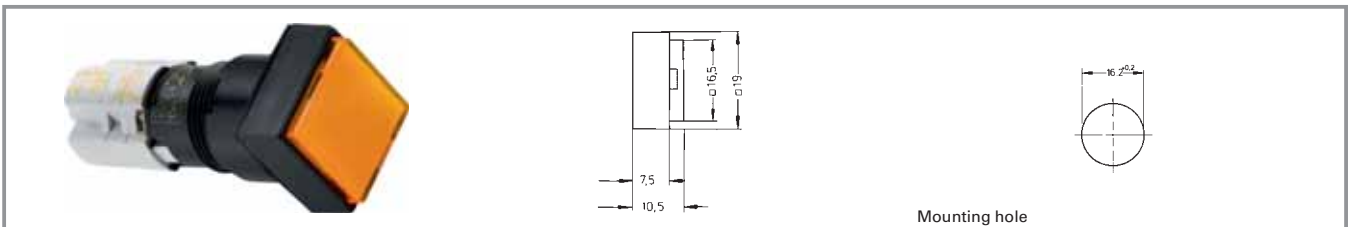
### Lenses:

- Lens, square, transparent colourless, for filament lamp or LED: **5.49.277.052/1002**
- Lens, square, transparent red, for LED: **5.49.277.052/1301**
- Lens, square, transparent red, for filament lamp: **5.49.277.052/1303**
- Lens, square, transparent yellow, for filament lamp or LED: **5.49.277.052/1402**
- Lens, square, transparent green, for filament lamp: **5.49.277.052/1502**
- Lens, square, transparent green, for LED: **5.49.277.052/1503**
- Lens, square, transparent blue, for filament lamp: **5.49.277.052/1601**

### Accessoires:

- Legend insert, square, without legend: **5.70.629.000/2000**

## LUMOTAST 75 IP65 - Illuminated pushbutton, protruding lens, square collar



| Contact arrangement | Contact function | Colour of collar | Order no. without lens | Note                                           |
|---------------------|------------------|------------------|------------------------|------------------------------------------------|
| 1 NC + 1 NO         | momentary        | black            | 1.15.108.281/0000      | Please include the desired lens in your order. |
| 1 NC + 1 NO         | latching         | black            | 1.15.108.381/0000      | Please include the desired lens in your order. |
| 2 NC + 2 NO         | momentary        | black            | 1.15.108.282/0000      | Please include the desired lens in your order. |
| 2 NC + 2 NO         | latching         | black            | 1.15.108.382/0000      | Please include the desired lens in your order. |

Technical data see page 1 - 52

### Lenses:

Lens, square, transparent colourless, for filament lamp or LED: **5.49.277.052/1002**

Lens, square, transparent red, for LED: **5.49.277.052/1301**

Lens, square, transparent red, for filament lamp: **5.49.277.052/1303**

Lens, square, transparent yellow, for filament lamp or LED: **5.49.277.052/1402**

Lens, square, transparent green, for filament lamp: **5.49.277.052/1502**

Lens, square, transparent green, for LED: **5.49.277.052/1503**

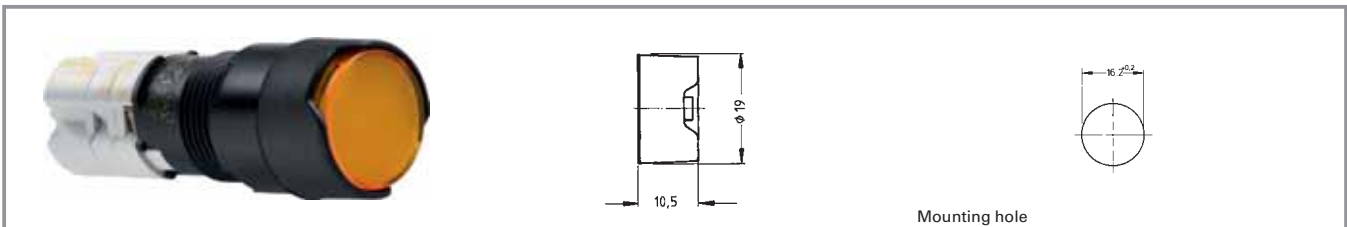
Lens, square, transparent blue, for filament lamp: **5.49.277.052/1601**

### Accessoires:

Legend insert, square, without legend: **5.70.629.000/2000**

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## LUMOTAST 75 IP65 - Illuminated pushbutton, flush lens, round collar



| Contact arrangement | Contact function | Colour of collar | Order no. without lens   | Note                                           |
|---------------------|------------------|------------------|--------------------------|------------------------------------------------|
| 1 NC + 1 NO         | momentary        | black            | <b>1.15.108.481/0000</b> | Please include the desired lens in your order. |
| 1 NC + 1 NO         | latching         | black            | <b>1.15.108.981/0000</b> | Please include the desired lens in your order. |
| 2 NC + 2 NO         | momentary        | black            | <b>1.15.108.482/0000</b> | Please include the desired lens in your order. |
| 2 NC + 2 NO         | latching         | black            | <b>1.15.108.982/0000</b> | Please include the desired lens in your order. |

LUMO  
75 (65)

Technical data see page 1 - 52

### Lenses:

Lens, round, transparent colourless, for filament lamp or LED: **5.49.259.013/1002**

Lens, round, transparent red, for LED: **5.49.259.013/1301**

Lens, round, transparent red, for filament lamp: **5.49.259.013/1303**

Lens, round, transparent yellow, for filament lamp or LED: **5.49.259.013/1402**

Lens, round, transparent green, for filament lamp: **5.49.259.013/1502**

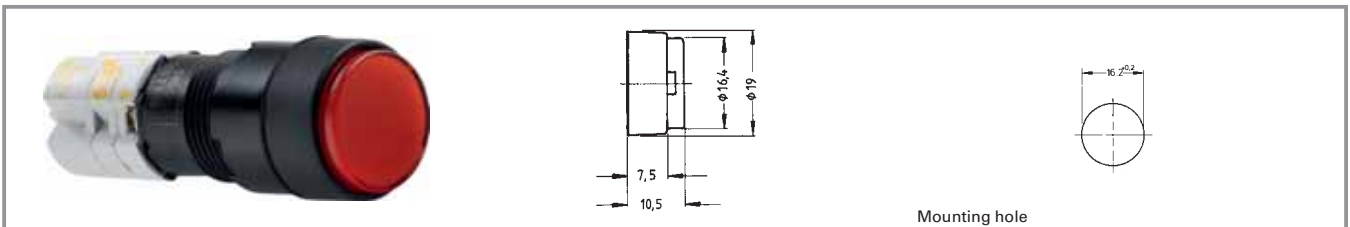
Lens, round, transparent green, for LED: **5.49.259.013/1503**

Lens, round, transparent blue, for filament lamp: **5.49.259.013/1601**

### Accessoires:

Legend insert, round, without legend: **5.70.059.000/2000**

## LUMOTAST 75 IP65 - Illuminated pushbutton, protruding lens, round collar



| Contact arrangement | Contact function | Colour of collar | Order no. without lens   | Note                                           |
|---------------------|------------------|------------------|--------------------------|------------------------------------------------|
| 1 NC + 1 NO         | momentary        | black            | <b>1.15.108.476/0000</b> | Please include the desired lens in your order. |
| 1 NC + 1 NO         | latching         | black            | <b>1.15.108.976/0000</b> | Please include the desired lens in your order. |
| 2 NC + 2 NO         | momentary        | black            | <b>1.15.108.477/0000</b> | Please include the desired lens in your order. |
| 2 NC + 2 NO         | latching         | black            | <b>1.15.108.977/0000</b> | Please include the desired lens in your order. |

Technical data see page 1 - 52

### Lenses:

Lens, round, transparent colourless, for filament lamp or LED: **5.49.259.013/1002**

Lens, round, transparent red, for LED: **5.49.259.013/1301**

Lens, round, transparent red, for filament lamp: **5.49.259.013/1303**

Lens, round, transparent yellow, for filament lamp or LED: **5.49.259.013/1402**

Lens, round, transparent green, for filament lamp: **5.49.259.013/1502**

Lens, round, transparent green, for LED: **5.49.259.013/1503**

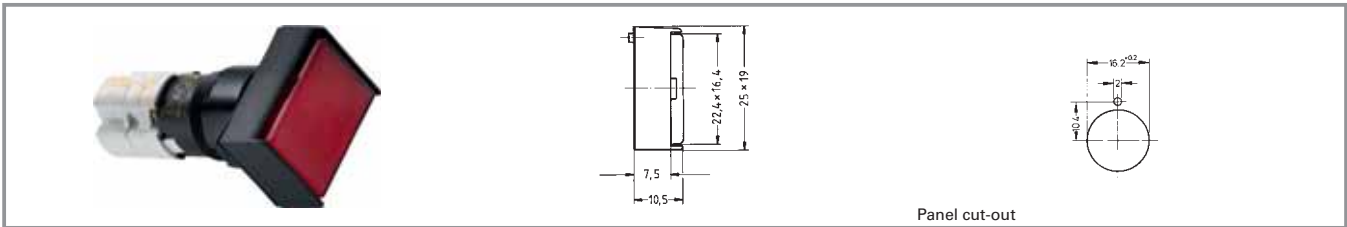
Lens, round, transparent blue, for filament lamp: **5.49.259.013/1601**

### Accessoires:

Legend insert, round, without legend: **5.70.059.000/2000**

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## LUMOTAST 75 IP65 - Illuminated pushbutton, flush lens, rectangular collar



| Contact arrangement | Contact function | Colour of collar | Order no. without lens | Note                                           |
|---------------------|------------------|------------------|------------------------|------------------------------------------------|
| 1 NC + 1 NO         | momentary        | black            | 1.15.108.076/0000      | Please include the desired lens in your order. |
| 1 NC + 1 NO         | latching         | black            | 1.15.108.176/0000      | Please include the desired lens in your order. |
| 2 NC + 2 NO         | momentary        | black            | 1.15.108.077/0000      | Please include the desired lens in your order. |
| 2 NC + 2 NO         | latching         | black            | 1.15.108.177/0000      | Please include the desired lens in your order. |

LUMO  
75 (65)

Technical data see page 1 - 52

### Lenses:

- Lens, rectangular, transparent colourless, for filament lamp or LED: 5.49.277.058/1002
- Lens, rectangular, transparent red, for LED: 5.49.277.058/1301
- Lens, rectangular, transparent red, for filament lamp: 5.49.277.058/1303
- Lens, rectangular, transparent yellow, for filament lamp or LED: 5.49.277.058/1402
- Lens, rectangular, transparent green, for filament lamp: 5.49.277.058/1502
- Lens, rectangular, transparent green, for LED: 5.49.277.058/1503
- Lens, rectangular, transparent blue, for filament lamp: 5.49.277.058/1601

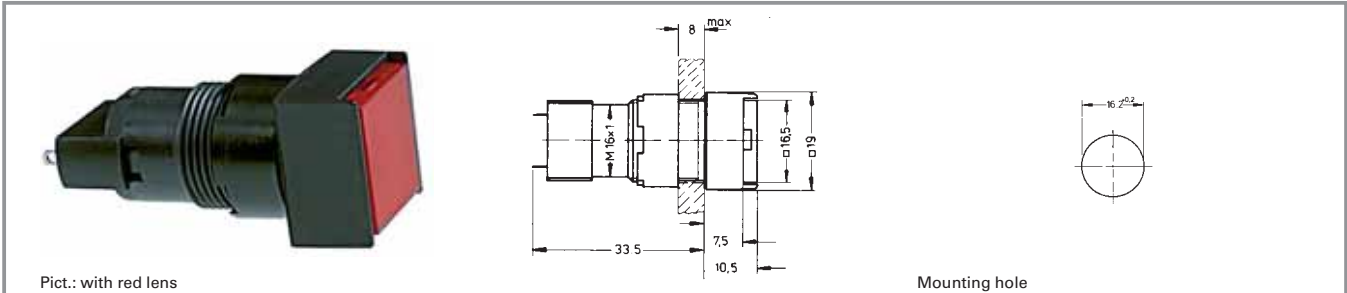
### Accessoires:

- Legend insert, rectangular without legend: 5.70.630.000/2000



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## LUMOTAST 75 IP65 - Signal lamp



### Technical Data

#### General information

|                    |                 |
|--------------------|-----------------|
| Form of lens       | see order block |
| Form of collar     | see order block |
| Diameter of collar | see order block |

#### Dimensions

|                  |                 |
|------------------|-----------------|
| Length of collar | see order block |
| Width of collar  | see order block |
| Overall height   | 10.5 mm         |
| Mounting depth   | 33.5 mm         |
| Mounting hole    | 16.2 mm         |

#### Mechanical design

|             |                     |
|-------------|---------------------|
| Mounting    | ring nut            |
| Terminals   | solder terminals    |
| Lamp socket | T 4.5               |
| Lamp        | filament lamp / LED |

#### Electrical characteristics

|                    |       |
|--------------------|-------|
| Voltage limit max. | 35 V  |
| Power limit max.   | 1.2 W |

#### Other specifications

|                                      |        |
|--------------------------------------|--------|
| Degree of protection from front side | IP65   |
| Weight                               | 5 g    |
| Operation temperature min.           | -25 °C |
| Ambient temp. operating max.         | +55 °C |
| Storage temperature min.             | -40 °C |
| Storage temperature max.             | +80 °C |

### Approvals



UL 508 C22.2 No. 14-M91

### Typical accessories LUMOTAST 75 IP65 - Signal lamp

| Description                        | Photo | Order no.                | Additional accessories see page |
|------------------------------------|-------|--------------------------|---------------------------------|
| Filament lamp, T 4.5 base, 12 V    |       | <b>1.90.100.022/0000</b> | 5 - 6                           |
| Filament lamp, T 4.5 base, 24 V    |       | <b>1.90.100.023/0000</b> | 5 - 6                           |
| LED T 4.5 superbright, red, 24 V   |       | <b>1.90.690.331/0000</b> | 5 - 16                          |
| LED T 4.5 superbright, green, 24 V |       | <b>1.90.690.332/0000</b> | 5 - 16                          |

**Typical accessories LUMOTAST 75 IP65 - Signal lamp**

| Description                                                      | Photo                                                                                | Order no.                | Additional accessories see page |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| LEDT 4.5 superbright, yellow, 24 V                               |    | <b>1.90.690.333/0000</b> | 5 - 16                          |
| LEDT 4.5 superbright, blue, 24 V                                 |    | <b>1.90.690.334/0000</b> | 5 - 16                          |
| LEDT 4.5 superbright, white, 24 V                                |    | <b>1.90.690.335/0000</b> | 5 - 16                          |
| LEDT 4.5, red, 2-3 V (use external resistor)                     |    | <b>1.90.692.001/0000</b> | 5 - 16                          |
| LEDT 4.5, yellow, 2-3 V (use external resistor)                  |    | <b>1.90.692.003/0000</b> | 5 - 16                          |
| Lamp extractor for lamp diameter 4 mm                            |    | <b>1.90.900.002/0000</b> | 5 - 5, 5 - 6, 5 - 20            |
| Lamp extractor for lamp diameter 5-6 mm                          |    | <b>1.90.900.004/0000</b> | 5 - 16, 5 - 20                  |
| Blanking cap, black, to cover spare holes, dimensions 18 x 18 mm |    | 5.52.006.020/0103        | 5 - 26                          |
| Blanking cap, black, to cover spare holes, dimensions 18 x 24 mm |  | 5.52.006.021/0100        | 5 - 26                          |
| Blanking cap, black, to cover spare holes, round 18 mm           |  | 5.52.006.022/0100        | 5 - 26                          |
| Fixing spanner M 15, M 16                                        |  | 5.58.002.019/0105        | 5 - 21                          |

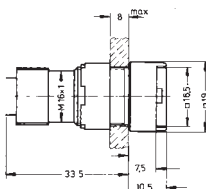
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LUMO  
75 (65)

## LUMOTAST 75 IP65 - Signal lamp, flush lens, square collar



Pict.: with red lens



Mounting hole

| Voltage limit max. | Power limit max. | Lamp socket | Form of collar | Order no. without lens   | Note                                           |
|--------------------|------------------|-------------|----------------|--------------------------|------------------------------------------------|
| 35 V               | 1.2 W            | T 4.5       | square         | <b>1.65.111.066/0000</b> | Please include the desired lens in your order. |

Technical data see page 1 - 60

### Lenses:

Lens, square, transparent colourless, for filament lamp or LED: **5.49.277.052/1002**

Lens, square, transparent red, for LED: **5.49.277.052/1301**

Lens, square, transparent red, for filament lamp: **5.49.277.052/1303**

Lens, square, transparent yellow, for filament lamp or LED: **5.49.277.052/1402**

Lens, square, transparent green, for filament lamp: **5.49.277.052/1502**

Lens, square, transparent green, for LED: **5.49.277.052/1503**

Lens, square, transparent blue, for filament lamp: **5.49.277.052/1601**

### Accessoires:

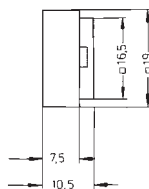
Legend insert, square, without legend: **5.70.629.000/2000**

For assembly, press the lens as far as possible.

## LUMOTAST 75 IP65 - Signal lamp, protruding lens, square collar



Pict.: with green lens



Mounting hole

| Voltage limit max. | Power limit max. | Lamp socket | Form of collar | Order no. without lens   | Note                                           |
|--------------------|------------------|-------------|----------------|--------------------------|------------------------------------------------|
| 35 V               | 1.2 W            | T 4.5       | square         | <b>1.65.111.086/0000</b> | Please include the desired lens in your order. |

Technical data see page 1 - 60

### Lenses:

Lens, square, transparent colourless, for filament lamp or LED: **5.49.277.052/1002**

Lens, square, transparent red, for LED: **5.49.277.052/1301**

Lens, square, transparent red, for filament lamp: **5.49.277.052/1303**

Lens, square, transparent yellow, for filament lamp or LED: **5.49.277.052/1402**

Lens, square, transparent green, for filament lamp: **5.49.277.052/1502**

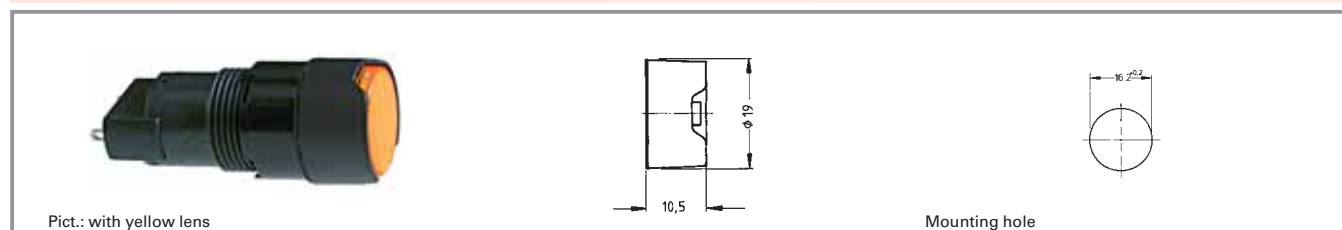
Lens, square, transparent green, for LED: **5.49.277.052/1503**

Lens, square, transparent blue, for filament lamp: **5.49.277.052/1601**

### Accessoires:

Legend insert, square, without legend: **5.70.629.000/2000**

For assembly, press the lens as far as possible.

**LUMOTAST 75 IP65 - Signal lamp, flush lens, round collar**


| Voltage limit max. | Power limit max. | Lamp socket | Form of collar | Order no. without lens   | Note                                           |
|--------------------|------------------|-------------|----------------|--------------------------|------------------------------------------------|
| 35 V               | 1.2 W            | T 4.5       | round          | <b>1.65.111.096/0000</b> | Please include the desired lens in your order. |

Technical data see page 1 - 60

**Lenses:**

Lens, round, transparent colourless, for filament lamp or LED: **5.49.259.013/1002**

Lens, round, transparent red, for LED: **5.49.259.013/1301**

Lens, round, transparent red, for filament lamp: **5.49.259.013/1303**

Lens, round, transparent yellow, for filament lamp or LED: **5.49.259.013/1402**

Lens, round, transparent green, for filament lamp: **5.49.259.013/1502**

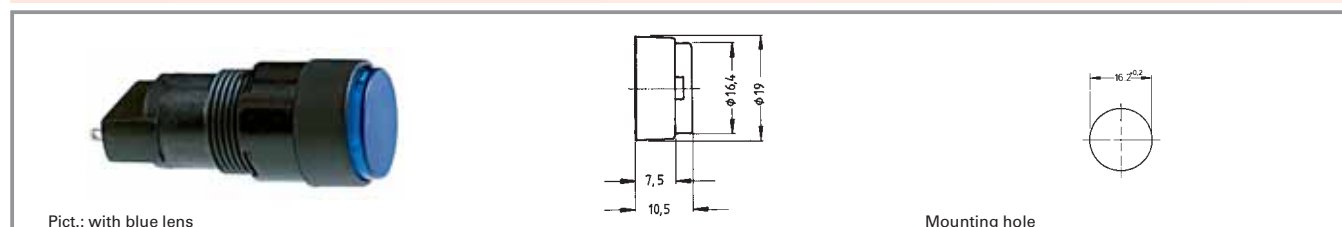
Lens, round, transparent green, for LED: **5.49.259.013/1503**

Lens, round, transparent blue, for filament lamp: **5.49.259.013/1601**

**Accessoires:**

Legend insert, round, without legend: **5.70.059.000/2000**

For assembly, press the lens as far as possible.

**1**
**LUMO  
75 (65)**
**LUMOTAST 75 IP65 - Signal lamp, protruding lens, round collar**


| Voltage limit max. | Power limit max. | Lamp socket | Form of collar | Order no. without lens   | Note                                           |
|--------------------|------------------|-------------|----------------|--------------------------|------------------------------------------------|
| 35 V               | 1.2 W            | T 4.5       | round          | <b>1.65.111.076/0000</b> | Please include the desired lens in your order. |

Technical data see page 1 - 60

**Lenses:**

Lens, round, transparent colourless, for filament lamp or LED: **5.49.259.013/1002**

Lens, round, transparent red, for LED: **5.49.259.013/1301**

Lens, round, transparent red, for filament lamp: **5.49.259.013/1303**

Lens, round, transparent yellow, for filament lamp or LED: **5.49.259.013/1402**

Lens, round, transparent green, for filament lamp: **5.49.259.013/1502**

Lens, round, transparent green, for LED: **5.49.259.013/1503**

Lens, round, transparent blue, for filament lamp: **5.49.259.013/1601**

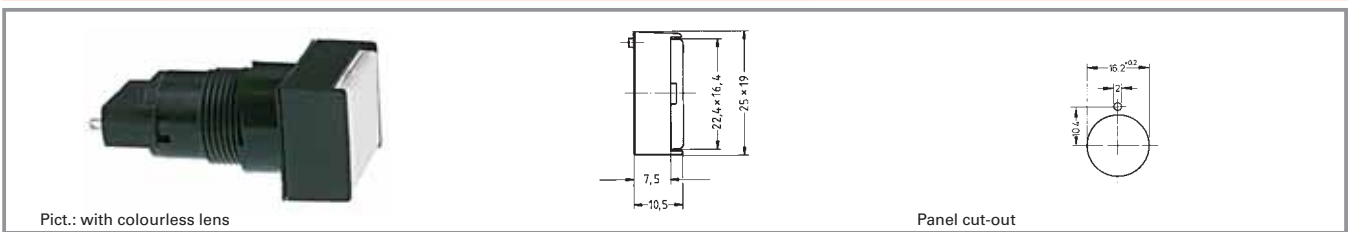
**Accessoires:**

Legend insert, round, without legend: **5.70.059.000/2000**

For assembly, press the lens as far as possible.

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LUMOTAST 75 IP65 - Signal lamp, flush lens, rectangular collar



| Voltage limit max. | Power limit max. | Lamp socket | Form of collar | Order no. without lens | Note                                           |
|--------------------|------------------|-------------|----------------|------------------------|------------------------------------------------|
| 35 V               | 1.2 W            | T 4.5       | rectangular    | 1.65.111.056/0000      | Please include the desired lens in your order. |

Technical data see page 1 - 60

- Lenses:**  
Lens, rectangular, transparent colourless, for filament lamp or LED: 5.49.277.058/1002  
Lens, rectangular, transparent red, for LED: 5.49.277.058/1301  
Lens, rectangular, transparent red, for filament lamp: 5.49.277.058/1303  
Lens, rectangular, transparent yellow, for filament lamp or LED: 5.49.277.058/1402  
Lens, rectangular, transparent green, for filament lamp: 5.49.277.058/1502  
Lens, rectangular, transparent green, for LED: 5.49.277.058/1503  
Lens, rectangular, transparent blue, for filament lamp: 5.49.277.058/1601

- Accessoires:**  
Legend insert, rectangular without legend: 5.70.630.000/2000

For assembly, press the lens as far as possible.

LUMO  
75 (65)



## General Data

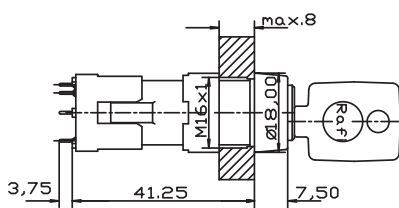
- Keylock switch for a mounting hole diameter of 16.2 mm
- 35 V max.
  - 100 mA
  - Design matches with LUMOTAST FK and LUMOTAST 75 IP40.

Key  
Swit-  
ches

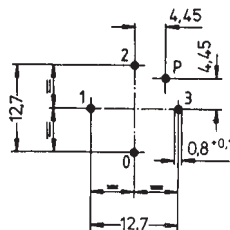
## Content

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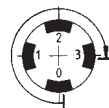
## Keylock switch



Pict.: with plug-in socket



PCB footprint



## Technical Data

### General information

Form of collar see order block

### Dimensions

Length of collar see order block  
Diameter of collar see order block  
Width of collar see order block  
Overall height 7.5 mm  
Mounting depth 39.5 mm; with plug-in socket 41.25 mm  
Mounting hole 16.2 mm

### Mechanical design

Mounting ring nut  
Terminals solder terminals  
Contact system sliding contact, self cleaning  
Contact function latching  
Contact arrangement 1 NO at every switching position  
Contact materials Au alloy  
Illumination no

### Mechanical design of lock

Lock cylinder lock with pin tumblers  
Wafers 5 pins  
Lock type 5001  
Number of locking positions 10,000  
Main key on request  
Symmetric key on request  
Key removal position see order block

### Mechanical characteristics

Torque against stop max. 0.035 Nm  
Torque against stop max. 1.8 Nm

### Electrical characteristics

Rated voltage AC/DC max. 35 V  
Rated voltage AC/DC min. 5 V  
Rated current AC/DC max. 100 mA  
Rated current AC/DC min. 5 mA  
ESD strength max. 12 kV  
Insulation resistance  $6 \times 10^8 \Omega$   
Contact resistance max. 200 m $\Omega$

### Other specifications

Operating life (operations) 50,000  
Degree of protection from front side IP65  
Operation temperature min. -25 °C  
Ambient temp. operating max. +70 °C  
Storage temperature min. -40 °C  
Storage temperature max. +80 °C  
Environmental resistance acc. to IEC 60068-2 -14, -30, -33 and -78  
Soldering temperature max. 350 °C  
Weight 29 g  
Soldering time max. 3 s  
Rotating angle see order block

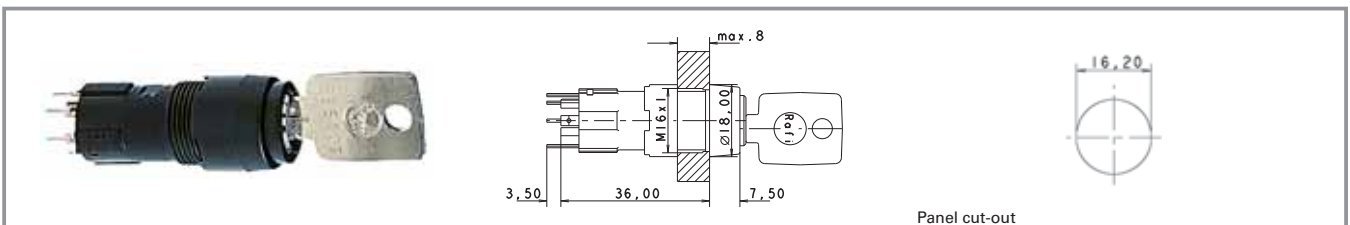
## Typical accessories Keylock switch

| Description                     | Photo                                                                                | Order no.         | Additional accessories see page |
|---------------------------------|--------------------------------------------------------------------------------------|-------------------|---------------------------------|
| Plug-in socket for PCB mounting |  | 5.05.510.298/0000 | 5 - 23                          |
| Fixing spanner M 15, M 16       |  | 5.58.002.019/0105 | 5 - 21                          |

## Typical accessories Keylock switch

| Description         | Photo                                                                             | Order no.         | Additional accessories see page |
|---------------------|-----------------------------------------------------------------------------------|-------------------|---------------------------------|
| Spare key (1 piece) |  | 5.58.011.001/0000 |                                 |

## Keylock switch - round collar

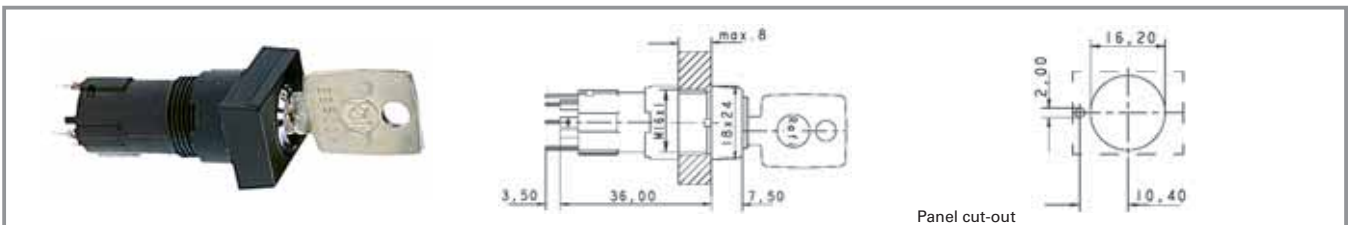


| Contact arrangement              | Contact function | Rotating angle | Key removal position | Order no.         |
|----------------------------------|------------------|----------------|----------------------|-------------------|
| 1 NO at every switching position | latching         | 1 x 90°        | 0+1                  | 1.10.118.612/0000 |
| 1 NO at every switching position | latching         | 2 x 90°        | 0                    | 1.10.118.513/0000 |
| 1 NO at every switching position | latching         | 2 x 90°        | 0+1+2                | 1.10.118.713/0000 |
| 1 NO at every switching position | latching         | 3 x 90°        | 0+1+2+3              | 1.10.118.814/0000 |

Technical data see page 1 - 66

Included: 2 keys.

## Keylock switch - rectangular collar

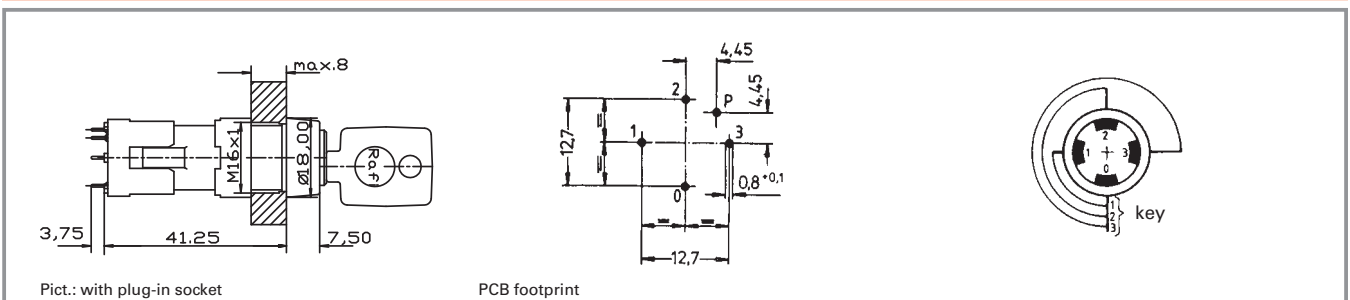


| Contact arrangement              | Contact function | Rotating angle | Key removal position | Order no.         |
|----------------------------------|------------------|----------------|----------------------|-------------------|
| 1 NO at every switching position | latching         | 1 x 90°        | 0+1                  | 1.10.118.212/0000 |
| 1 NO at every switching position | latching         | 2 x 90°        | 0+1+2                | 1.10.118.313/0000 |
| 1 NO at every switching position | latching         | 3 x 90°        | 0+1+2+3              | 1.10.118.414/0000 |

Technical data see page 1 - 66

Included: 2 keys.

## Priority keylock switch



Pict.: with plug-in socket

PCB footprint

### Technical Data

|                                  |                                       |                                      |                                           |
|----------------------------------|---------------------------------------|--------------------------------------|-------------------------------------------|
| <b>General information</b>       |                                       | <b>Mechanical characteristics</b>    |                                           |
| Form of collar                   | see order block                       | Torque against stop max.             | 0.035 Nm                                  |
|                                  |                                       | Torque against stop max.             | 1.8 Nm                                    |
| <b>Dimensions</b>                |                                       | <b>Electrical characteristics</b>    |                                           |
| Length of collar                 | see order block                       | Rated voltage AC/DC max.             | 35 V                                      |
| Diameter of collar               | see order block                       | Rated voltage AC/DC min.             | 5 V                                       |
| Width of collar                  | see order block                       | Rated current AC/DC max.             | 100 mA                                    |
| Overall height                   | 7.5 mm                                | Rated current AC/DC min.             | 5 mA                                      |
| Mounting depth                   | 39.5 mm; with plug-in socket 41.25 mm | ESD strength max.                    | 12 kV                                     |
| Mounting hole                    | 16.2 mm                               | Insulation resistance                | $6 \times 10^8 \Omega$                    |
|                                  |                                       | Contact resistance max.              | 200 mΩ                                    |
| <b>Mechanical design</b>         |                                       | <b>Other specifications</b>          |                                           |
| Mounting                         | ring nut                              | Operating life (operations)          | 50,000                                    |
| Terminals                        | solder terminals                      | Degree of protection from front side | IP65                                      |
| Contact system                   | sliding contact, self cleaning        | Operation temperature min.           | -25 °C                                    |
| Contact function                 | latching                              | Ambient temp. operating max.         | +70 °C                                    |
| Contact arrangement              | 1 NO at every switching position      | Storage temperature min.             | -40 °C                                    |
| Contact materials                | Au alloy                              | Storage temperature max.             | +80 °C                                    |
| Illumination                     | no                                    | Environmental resistance             | acc. to IEC 60068-2 -14, -30, -33 and -78 |
| <b>Mechanical design of lock</b> |                                       | Soldering temperature max.           | 350 °C                                    |
| Lock                             | cylinder lock with pin tumblers       | Weight                               | 29 g                                      |
| Wafers                           | 5 pins                                | Soldering time max.                  | 3 s                                       |
| Lock type                        | 5001                                  | Rotating angle                       | see order block                           |
| Number of locking positions      | 10,000                                |                                      |                                           |
| Main key                         | yes                                   |                                      |                                           |
| Symmetric key                    | yes                                   |                                      |                                           |
| Key removal position             | see order block                       |                                      |                                           |

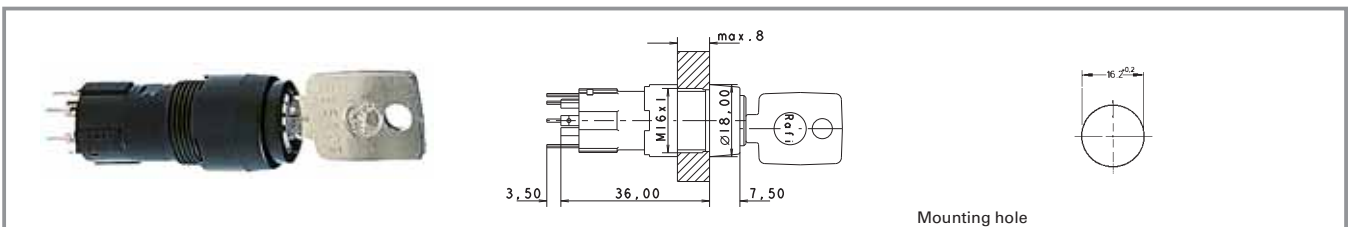
### Typical accessories Priority keylock switch

| Description                     | Photo | Order no.         | Additional accessories see page |
|---------------------------------|-------|-------------------|---------------------------------|
| Plug-in socket for PCB mounting |       | 5.05.510.298/0000 | 5 - 23                          |
| Fixing spanner M 15, M 16       |       | 5.58.002.019/0105 | 5 - 21                          |

## Typical accessories Priority keylock switch

| Description                                 | Photo                                                                             | Order no.         | Additional accessories see page |
|---------------------------------------------|-----------------------------------------------------------------------------------|-------------------|---------------------------------|
| Set of spare keys (3 keys) for 3 x 90° type |  | 5.58.099.010/0000 |                                 |
| Set of spare keys (2 keys) for 2 x 90° type |  | 5.58.099.011/0000 |                                 |

## Priority keylock switch - round collar

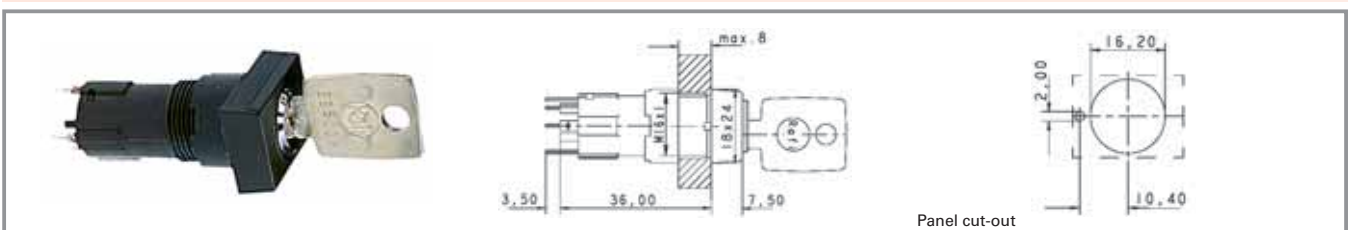


| Contact arrangement              | Contact function | Rotating angle | Key removal position                                                                         | Order no.                |
|----------------------------------|------------------|----------------|----------------------------------------------------------------------------------------------|--------------------------|
| 1 NO at every switching position | latching         | 2 x 90°        |  0        | <b>1.10.119.611/0000</b> |
| 1 NO at every switching position | latching         | 3 x 90°        |  0       | <b>1.10.119.617/0000</b> |
| 1 NO at every switching position | latching         | 3 x 90°        |  0+1+2+3 | <b>1.10.119.967/0000</b> |

Technical data see page 1 - 68

Included with 2 x 90° type: 2 keys; with 3 x 90° type: 3 keys.  
Key 1 switches to lock position 1, key 2 switches to lock positions 1 and 2, etc...

## Priority keylock switch - rectangular collar



| Contact arrangement              | Contact function | Rotating angle | Key removal position                                                                         | Order no.                |
|----------------------------------|------------------|----------------|----------------------------------------------------------------------------------------------|--------------------------|
| 1 NO at every switching position | latching         | 2 x 90°        |  0       | <b>1.10.119.111/0000</b> |
| 1 NO at every switching position | latching         | 3 x 90°        |  0       | <b>1.10.119.117/0000</b> |
| 1 NO at every switching position | latching         | 3 x 90°        |  0+1+2+3 | <b>1.10.119.467/0000</b> |

Technical data see page 1 - 68

Included with 2 x 90° type: 2 keys; with 3 x 90° type: 3 keys.  
Key 1 switches to lock position 1, key 2 switches to lock positions 1 and 2, etc...





## General Data

Various pushbuttons for mounting hole diameters from 9.1 mm to 20.3 mm.

## Content

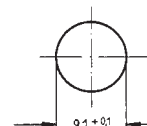
|                                                                                                |               |
|------------------------------------------------------------------------------------------------|---------------|
| <b>Pushbutton opaque - mounting hole diameter 9.1 mm, 24 V/100 mA</b>                          | <b>1 - 72</b> |
| Pushbutton opaque - mounting hole diameter 9.1 mm, 24 V/0.1 A                                  | 1 - 73        |
| <b>Pushbutton (illuminated) - mounting hole diameter 9.1 mm, 24 V/0.5 A</b>                    | <b>1 - 74</b> |
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| <b>Pushbutton opaque - mounting hole diameter 15.2 mm, 250 V/0.7 A</b>                         | <b>1 - 76</b> |
| Pushbutton opaque - mounting hole diameter 15.2 mm                                             | 1 - 77        |
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| Pushbutton with lamp socket BA9s - (MBC/MCC), mounting hole diameter 20.3 mm, 250 V/2 A        | 1 - 83        |

Other  
Pushb.

## Pushbutton opaque - mounting hole diameter 9.1 mm, 24 V/100 mA



Pict.: white lens



Panel cut-out

### Technical Data

#### General information

|                |                 |
|----------------|-----------------|
| Form of lens   | protruding lens |
| Colour of lens | see order block |
| Form of collar | round           |

#### Dimensions

|                    |         |
|--------------------|---------|
| Diameter of collar | 11 mm   |
| Overall height     | 4.5 mm  |
| Mounting depth     | 25.5 mm |
| Mounting hole      | 9.1 mm  |

#### Mechanical design

|                     |                  |
|---------------------|------------------|
| Mounting            | ring nut         |
| Terminals           | solder terminals |
| Contact system      | bridge contact   |
| Contact function    | momentary        |
| Contact arrangement | 1 NO             |
| Contact materials   | Ag               |
| Illumination        | no               |
| Lamp socket         | no               |

#### Mechanical characteristics

|                      |        |
|----------------------|--------|
| Operating force max. | 7 N    |
| Operating travel     | 2 mm   |
| Switching travel NO  | 1.3 mm |
| Robustness min.      | 100 N  |

#### Electrical characteristics

|                         |        |
|-------------------------|--------|
| Rated voltage AC max.   | 24 V   |
| Rated voltage DC max.   | 24 V   |
| Rated current max.      | 0.1 A  |
| Contact resistance max. | 200 mΩ |

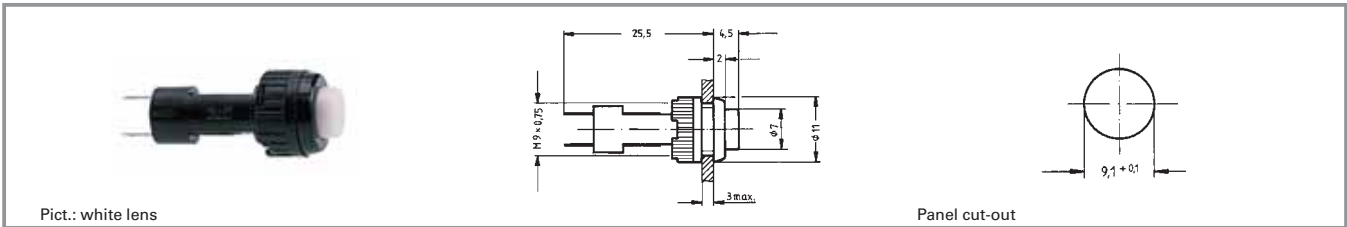
#### Other specifications

|                                      |                       |
|--------------------------------------|-----------------------|
| Operating life (operations)          | 40,000                |
| Degree of protection from front side | IP40                  |
| Operation temperature min.           | -25 °C                |
| Ambient temp. operating max.         | +70 °C                |
| Storage temperature min.             | -40 °C                |
| Storage temperature max.             | +80 °C                |
| Environmental resistance             | acc. to IEC 60068-2   |
|                                      | -14, -30, -33 and -78 |
| Weight                               | 2 g                   |
| Soldering time max.                  | 3 s                   |
| Soldering temperature max.           | 350 °C                |

## Typical accessories Pushbutton opaque - mounting hole diameter 9.1 mm, 24 V/100 mA

| Description              | Photo | Order no.                | Additional accessories see page |
|--------------------------|-------|--------------------------|---------------------------------|
| Fixing spanner M 9, M 10 |       | <b>5.58.002.025/0105</b> | 5 - 21                          |

Pushbutton opaque - mounting hole diameter 9.1 mm, 24 V/0.1 A



| Contact arrangement | Contact function | Illumination | Rated voltage DC max. | Colour of lens | Order no.                |
|---------------------|------------------|--------------|-----------------------|----------------|--------------------------|
| 1 NO                | momentary        | no           | 24 V                  | opaque black   | <b>1.10.107.011/0104</b> |
| 1 NO                | momentary        | no           | 24 V                  | opaque white   | <b>1.10.107.011/0205</b> |
| 1 NO                | momentary        | no           | 24 V                  | opaque red     | <b>1.10.107.011/0301</b> |
| 1 NO                | momentary        | no           | 24 V                  | opaque yellow  | <b>1.10.107.011/0404</b> |
| 1 NO                | momentary        | no           | 24 V                  | opaque green   | <b>1.10.107.011/0507</b> |

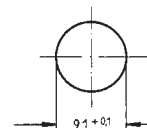
Technical data see page 1 - 72

1

Other  
Pushb.

**Pushbutton (illuminated) - mounting hole diameter 9.1 mm, 24 V/0.5 A**


Pict.: red



Panel cut-out

**Technical Data**
**General information**

|                |                 |
|----------------|-----------------|
| Form of lens   | protruding lens |
| Colour of lens | see order block |
| Form of collar | round           |

**Dimensions**

|                    |        |
|--------------------|--------|
| Diameter of collar | 11 mm  |
| Overall height     | 7 mm   |
| Mounting depth     | 25 mm  |
| Mounting hole      | 9.1 mm |

**Mechanical design**

|                     |                  |
|---------------------|------------------|
| Mounting            | ring nut         |
| Terminals           | solder terminals |
| Contact system      | bridge contact   |
| Contact function    | momentary        |
| Contact arrangement | 1 NC + 1 NO      |
| Contact materials   | Au               |
| Illumination        | see order block  |
| Lamp socket         | no               |

**Mechanical characteristics**

|                      |        |
|----------------------|--------|
| Operating force max. | 5 N    |
| Operating travel     | 1.5 mm |
| Switching travel NC  | 0.5 mm |
| Switching travel NO  | 1 mm   |
| Robustness min.      | 100 N  |

**Electrical characteristics**

|                          |       |
|--------------------------|-------|
| Rated voltage AC/DC max. | 24 V  |
| Rated voltage DC max.    | 24 V  |
| Rated current max.       | 0.5 A |

|                                      |                 |
|--------------------------------------|-----------------|
| Contact resistance when new max.     | 50 mΩ           |
| Contact resistance acc. to life max. | 300 mΩ          |
| Bouncing time max.                   | 10 ms           |
| Lamp voltage                         | see order block |

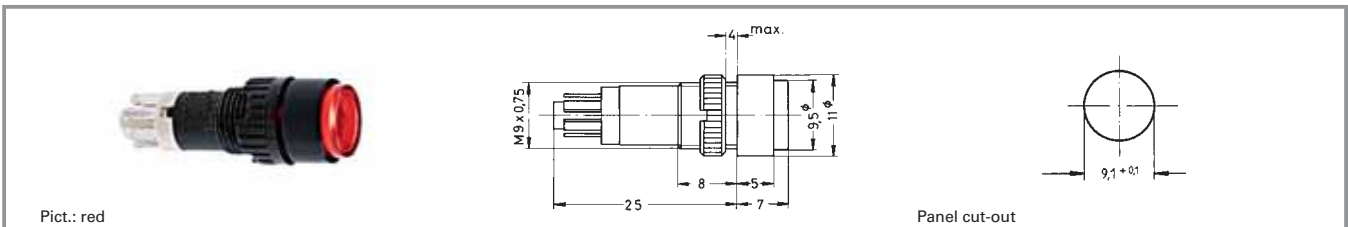
**Other specifications**

|                                      |                       |
|--------------------------------------|-----------------------|
| Operating life key switch            | 200,000               |
| Operating life filament lamp         | see order block       |
| Degree of protection from front side | IP40                  |
| Operation temperature min.           | -25 °C                |
| Ambient temp. operating max.         | +70 (LED +55) °C      |
| Storage temperature min.             | -40 °C                |
| Storage temperature max.             | +80 °C                |
| Environmental resistance             | acc. to IEC 60068-2   |
|                                      | -14, -30, -33 and -78 |
| Soldering temperature max.           | 350 °C                |
| Weight                               | 3 g                   |
| Soldering time max.                  | 3 s                   |
| LED operating voltage                | see order block       |
| LED forward current                  | see order block       |
| LED forward voltage                  | see order block       |
| LED reverse voltage                  | see order block       |
| LED reverse current                  | see order block       |
| LED power dissipation                | see order block       |
| LED series resistor 5-7 V            | see order block       |
| LED series resistor 12-14 V          | see order block       |
| LED series resistor 24-28 V          | see order block       |

**Typical accessories Pushbutton (illuminated) - mounting hole diameter 9.1 mm, 24 V/0.5 A**

| Description              | Photo                                                                                | Order no.                | Additional accessories see page |
|--------------------------|--------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| Fixing spanner M 9, M 10 |  | <b>5.58.002.025/0105</b> | 5 - 21                          |

## Pushbutton (illuminated) - mounting hole diameter 9.1 mm, 24 V/0.5 A



| Contact arrangement | Contact function | Illumination            | Lamp voltage                       | Colour of lens         | Order no.                |
|---------------------|------------------|-------------------------|------------------------------------|------------------------|--------------------------|
| 1 NC + 1 NO         | momentary        | LED super bright white  | 2 V/10 mA external series resistor | transparent white      | <b>1.15.106.505/1000</b> |
| 1 NC + 1 NO         | momentary        | LED super bright red    | 2 V/10 mA external series resistor | transparent red        | <b>1.15.106.501/1300</b> |
| 1 NC + 1 NO         | momentary        | LED super bright yellow | 2 V/10 mA external series resistor | transparent yellow     | <b>1.15.106.503/1400</b> |
| 1 NC + 1 NO         | momentary        | LED super bright green  | 2 V/10 mA external series resistor | transparent green      | <b>1.15.106.502/1500</b> |
| 1 NC + 1 NO         | momentary        | LED super bright blue   | 2 V/10 mA external series resistor | transparent blue       | <b>1.15.106.504/1600</b> |
| 1 NC + 1 NO         | momentary        | filament lamp           | 24 V / 0.7 W                       | transparent colourless | 1.15.106.021/1002        |
| 1 NC + 1 NO         | momentary        | filament lamp           | 24 V / 0.7 W                       | transparent red        | 1.15.106.021/1307        |
| 1 NC + 1 NO         | momentary        | filament lamp           | 24 V / 0.7 W                       | transparent yellow     | 1.15.106.021/1403        |
| 1 NC + 1 NO         | momentary        | filament lamp           | 24 V / 0.7 W                       | transparent green      | 1.15.106.021/1510        |
| 1 NC + 1 NO         | momentary        | no                      | -                                  | opaque black           | 1.15.106.301/0104        |
| 1 NC + 1 NO         | momentary        | no                      | -                                  | opaque white           | 1.15.106.301/0214        |
| 1 NC + 1 NO         | momentary        | no                      | -                                  | opaque red             | 1.15.106.301/0313        |
| 1 NC + 1 NO         | momentary        | no                      | -                                  | opaque yellow          | 1.15.106.301/0410        |
| 1 NC + 1 NO         | momentary        | no                      | -                                  | opaque green           | 1.15.106.301/0518        |

Technical data see page 1 - 74

Recommended values for external series resistor for LED

- 5 - 7 V = 270 Ω, 0.25 W
- 12 - 14 V = 680 Ω, 0.5 W
- 24 - 28 V = 1500 Ω, 1 W

LED forward current: max. 10 mA at T = 25° C

LED forward voltage: 2V at 10 mA

LED reverse voltage: 5 V

LED reverse current: 0,1 mA

LED power dissipation: max. 120 mW at T = 50° C

Please note: connect plus with the LED anode, which is marked with a colour point.

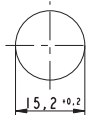
Operating life filament lamp: approx. 2,000 h.

1

## Pushbutton opaque - mounting hole diameter 15.2 mm, 250 V/0.7 A



Pict.: Screw terminals, red



Panel cut-out

### Technical Data

#### General information

|                |                 |
|----------------|-----------------|
| Form of lens   | protruding lens |
| Colour of lens | see order block |
| Form of collar | round           |

#### Dimensions

|                    |         |
|--------------------|---------|
| Diameter of collar | 19 mm   |
| Overall height     | 8.2 mm  |
| Mounting depth     | 21.5 mm |
| Mounting hole      | 15.2 mm |

#### Mechanical design

|                     |                 |
|---------------------|-----------------|
| Mounting            | ring nut        |
| Terminals           | see order block |
| Contact system      | bridge contact  |
| Contact function    | momentary       |
| Contact arrangement | see order block |
| Contact materials   | Ag              |
| Illumination        | no              |
| Lamp socket         | no              |

#### Mechanical characteristics

|                      |        |
|----------------------|--------|
| Operating force max. | 7.5 N  |
| Operating travel     | 3 mm   |
| Switching travel NC  | 1.2 mm |
| Switching travel NO  | 2.0 mm |
| Robustness min.      | 100 N  |

#### Electrical characteristics

|                                      |        |
|--------------------------------------|--------|
| Rated voltage AC max.                | 250 V  |
| Rated current max.                   | 0.7 A  |
| Contact resistance when new max.     | 50 mΩ  |
| Contact resistance acc. to life max. | 300 mΩ |

#### Other specifications

|                                         |                                              |
|-----------------------------------------|----------------------------------------------|
| Operating life (operations)             | 25,000                                       |
| Degree of protection from front side    | IP40 (IP65 with sealing cap)                 |
| Operation temperature min.              | -25 °C                                       |
| Ambient temp. operating max.            | +85 °C                                       |
| Storage temperature min.                | -40 °C                                       |
| Storage temperature max.                | +90 °C                                       |
| Environmental resistance                | acc. to IEC 60068-2<br>-14, -30, -33 and -78 |
| Weight                                  | 7 g                                          |
| Flame class acc. to UL 94               | V 0                                          |
| Hot wire ignition acc. to IEC 60695-2-1 | yes                                          |

Other  
Pushb.

### Approvals

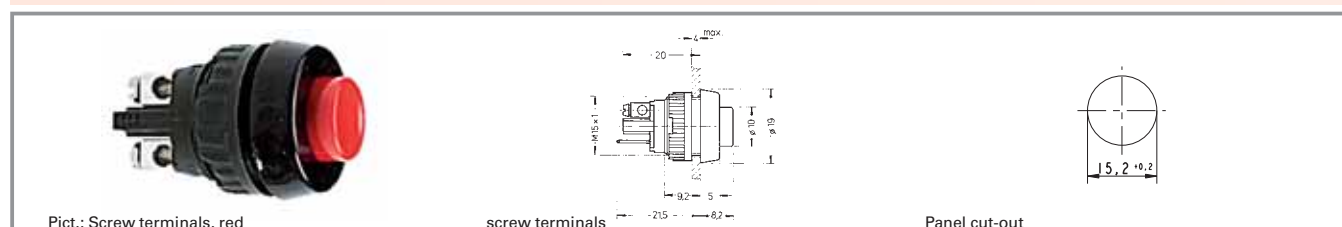


ENEC 25T85

## Typical accessories Pushbutton opaque - mounting hole diameter 15.2 mm, 250 V/0.7 A

| Description                     | Photo                                                                              | Order no.                | Additional accessories see page |
|---------------------------------|------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| Sealing cap, transparent (IP65) |  | <b>5.52.008.115/0000</b> |                                 |
| Fixing spanner M 15, M 16       |  | 5.58.002.019/0105        | 5 - 21                          |

## Pushbutton opaque - mounting hole diameter 15.2 mm



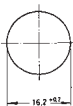
| Contact arrangement | Contact function | Terminals                                     | Colour of lens | Order no.                |
|---------------------|------------------|-----------------------------------------------|----------------|--------------------------|
| 1 NO                | momentary        | screw terminals                               | opaque black   | <b>1.10.001.001/0104</b> |
| 1 NO                | momentary        | screw terminals                               | opaque white   | <b>1.10.001.001/0205</b> |
| 1 NO                | momentary        | screw terminals                               | opaque red     | <b>1.10.001.001/0301</b> |
| 1 NO                | momentary        | screw terminals                               | opaque green   | <b>1.10.001.001/0507</b> |
| 1 NO                | momentary        | solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm | opaque black   | <b>1.10.001.011/0104</b> |
| 1 NO                | momentary        | solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm | opaque white   | <b>1.10.001.011/0205</b> |
| 1 NO                | momentary        | solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm | opaque red     | <b>1.10.001.011/0301</b> |
| 1 NO                | momentary        | solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm | opaque green   | <b>1.10.001.011/0507</b> |
| 1 NC                | momentary        | screw terminals                               | opaque black   | <b>1.10.001.151/0104</b> |
| 1 NC                | momentary        | screw terminals                               | opaque red     | <b>1.10.001.151/0301</b> |
| 1 NC                | momentary        | solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm | opaque black   | <b>1.10.001.161/0104</b> |
| 1 NC                | momentary        | solder/quick connector 6.3x0.8 / 2x 2.8x0.8mm | opaque red     | <b>1.10.001.161/0301</b> |

Technical data see page 1 - 76

Quick-connector 6.3 x 0.8 mm. The connector is splitted and also usable for two connectors 2.8 x 0.8 mm.

1

## Pushbutton opaque - mounting hole diameter 16.2 mm, 250 V/2 A



Pict.: green

Panel cut-out

### Technical Data

#### General information

|                |                 |
|----------------|-----------------|
| Form of lens   | protruding lens |
| Colour of lens | see order block |
| Form of collar | round           |

#### Dimensions

|                    |         |
|--------------------|---------|
| Diameter of collar | 20 mm   |
| Overall height     | 9 mm    |
| Mounting depth     | 41 mm   |
| Mounting hole      | 16.2 mm |

#### Mechanical design

|                     |                 |
|---------------------|-----------------|
| Mounting            | ring nut        |
| Terminals           | screw terminals |
| Contact system      | bridge contact  |
| Contact function    | momentary       |
| Contact arrangement | see order block |
| Contact materials   | Ag              |
| Illumination        | no              |
| Lamp socket         | no              |

#### Mechanical characteristics

|                      |        |
|----------------------|--------|
| Operating force max. | 7.5 N  |
| Operating travel     | 4.3 mm |
| Switching travel NC  | 1.3 mm |
| Switching travel NO  | 2.2 mm |
| Robustness min.      | 100 N  |

#### Electrical characteristics

|                                  |        |
|----------------------------------|--------|
| Rated voltage AC max.            | 250 V  |
| Rated current max.               | 2 A    |
| Contact resistance when new max. | 100 mΩ |

#### Other specifications

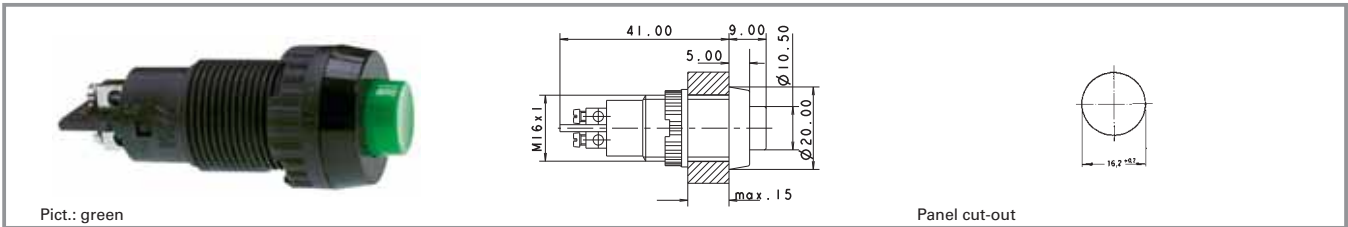
|                                         |                              |
|-----------------------------------------|------------------------------|
| Operating life (operations)             | 150,000                      |
| Degree of protection from front side    | IP40 (IP65 with sealing cap) |
| Operation temperature min.              | -25 °C                       |
| Ambient temp. operating max.            | +85 °C                       |
| Storage temperature min.                | -40 °C                       |
| Storage temperature max.                | +90 °C                       |
| Environmental resistance                | acc. to IEC 60068-2          |
|                                         | -14, -30, -33 and -78        |
| Weight                                  | 11 g                         |
| Flame class acc. to UL 94               | V 0                          |
| Hot wire ignition acc. to IEC 60695-2-1 | yes                          |

Other Pushb.

### Typical accessories Pushbutton opaque - mounting hole diameter 16.2 mm, 250 V/2 A

| Description                         | Photo | Order no.                | Additional accessories see page |
|-------------------------------------|-------|--------------------------|---------------------------------|
| Sealing cap, black (IP65)           |       | <b>5.52.008.101/0100</b> |                                 |
| Sealing cap, red (IP65)             |       | <b>5.52.008.101/0300</b> |                                 |
| Protective sleeve for terminals     |       | <b>5.52.011.026/0100</b> |                                 |
| Protection against contact to VBG 4 |       | 5.55.101.715/0200        | 5 - 25                          |
| Fixing spanner M 15, M 16           |       | 5.58.002.019/0105        | 5 - 21                          |

## Pushbutton opaque - mounting hole diameter 16.2 mm, 250 V/2 A



| Contact arrangement | Contact function | Illumination | Rated voltage AC max. | Colour of lens | Order no.                |
|---------------------|------------------|--------------|-----------------------|----------------|--------------------------|
| 1 NO                | momentary        | no           | 250 V                 | opaque black   | <b>1.10.102.001/0104</b> |
| 1 NO                | momentary        | no           | 250 V                 | opaque white   | <b>1.10.102.001/0205</b> |
| 1 NO                | momentary        | no           | 250 V                 | opaque red     | <b>1.10.102.001/0301</b> |
| 1 NO                | momentary        | no           | 250 V                 | opaque green   | <b>1.10.102.001/0507</b> |
| 1 NC                | momentary        | no           | 250 V                 | opaque black   | <b>1.10.102.011/0104</b> |
| 1 NC                | momentary        | no           | 250 V                 | opaque red     | <b>1.10.102.011/0301</b> |

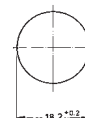
Technical data see page 1 - 78

Other  
Pushb.

## Pushbutton opaque - mounting hole diameter 18.2 mm, 250 V/2 A



Pict.: green



Mounting hole

### Technical Data

#### General information

|                |                 |
|----------------|-----------------|
| Form of lens   | protruding lens |
| Colour of lens | see order block |
| Form of collar | round           |

#### Dimensions

|                    |         |
|--------------------|---------|
| Diameter of collar | 22 mm   |
| Overall height     | 10.5 mm |
| Mounting depth     | 34 mm   |
| Mounting hole      | 18.2 mm |

#### Mechanical design

|                     |                        |
|---------------------|------------------------|
| Mounting            | ring nut               |
| Terminals           | see order block        |
| Contact system      | sliding bridge contact |
| Contact function    | momentary              |
| Contact arrangement | see order block        |
| Contact materials   | Ag                     |
| Illumination        | no                     |
| Lamp socket         | no                     |

#### Mechanical characteristics

|                      |        |
|----------------------|--------|
| Operating force max. | 9.5 N  |
| Operating travel     | 5 mm   |
| Switching travel NC  | 2.1 mm |
| Switching travel NO  | 3.7 mm |
| Robustness min.      | 100 N  |

#### Electrical characteristics

|                                      |        |
|--------------------------------------|--------|
| Rated voltage AC max.                | 250 V  |
| Rated current max.                   | 2 A    |
| Contact resistance acc. to life max. | 200 mΩ |

#### Other specifications

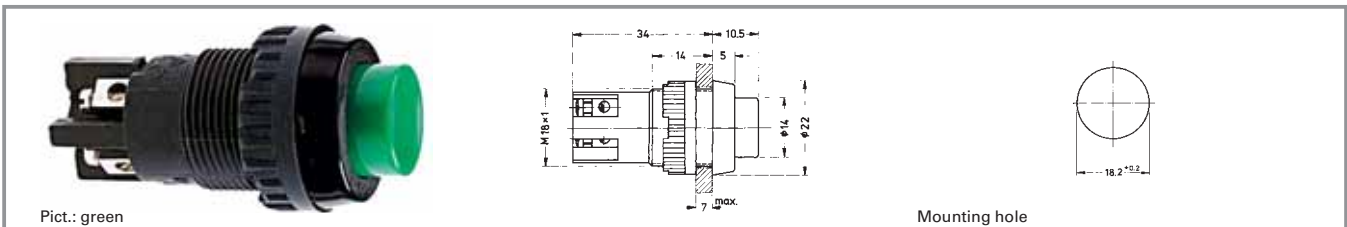
|                                         |                                           |
|-----------------------------------------|-------------------------------------------|
| Operating life (operations)             | 50,000                                    |
| Degree of protection from front side    | IP40 (IP65 with sealing cap)              |
| Operation temperature min.              | -25 °C                                    |
| Ambient temp. operating max.            | +85 °C                                    |
| Storage temperature min.                | -40 °C                                    |
| Storage temperature max.                | +90 °C                                    |
| Environmental resistance                | acc. to IEC 60068-2 -14, -30, -33 and -78 |
| Weight                                  | 14 g                                      |
| Flame class acc. to UL 94               | V 0                                       |
| Hot wire ignition acc. to IEC 60695-2-1 | yes                                       |

Other  
Pushb.

### Typical accessories Pushbutton opaque - mounting hole diameter 18.2 mm, 250 V/2 A

| Description                     | Photo | Order no.         | Additional accessories see page |
|---------------------------------|-------|-------------------|---------------------------------|
| Neoprene sealing cap, black     |       | 5.52.008.061/0100 |                                 |
| Silicone sealing cap (IP65)     |       | 5.52.008.065/0000 |                                 |
| Protective sleeve for terminals |       | 5.52.011.028/0100 |                                 |
| Fixing spanner M 18, M 19       |       | 5.58.002.017/0105 | 5 - 21                          |

## Pushbutton opaque - mounting hole diameter 18.2 mm, 250 V/2 A



| Contact arrangement | Contact function | Illumination | Terminals       | Colour of lens | Order no.                |
|---------------------|------------------|--------------|-----------------|----------------|--------------------------|
| 2 NO                | momentary        | no           | screw terminals | opaque black   | <b>1.01.102.001/0104</b> |
| 2 NO                | momentary        | no           | screw terminals | opaque red     | <b>1.01.102.001/0301</b> |
| 2 NO                | momentary        | no           | screw terminals | opaque green   | <b>1.01.102.001/0507</b> |
| 1 NC + 1 NO         | momentary        | no           | screw terminals | opaque black   | <b>1.01.102.011/0104</b> |
| 1 NC + 1 NO         | momentary        | no           | screw terminals | opaque white   | <b>1.01.102.011/0205</b> |
| 1 NC + 1 NO         | momentary        | no           | screw terminals | opaque red     | <b>1.01.102.011/0301</b> |
| 1 NC + 1 NO         | momentary        | no           | screw terminals | opaque green   | <b>1.01.102.011/0507</b> |

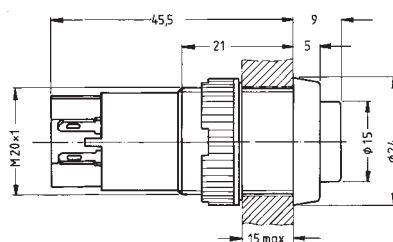
Technical data see page 1 - 80

Other  
Pushb.

## Pushbutton with lamp socket BA9s - (MBC/MCC), mounting hole diameter 20.3 mm, 250 V/2 A



Pict.: with red lens



Mounting hole



### Technical Data

#### General information

|                |                 |
|----------------|-----------------|
| Form of lens   | protruding lens |
| Colour of lens | see order block |
| Form of collar | round           |

#### Dimensions

|                    |         |
|--------------------|---------|
| Diameter of collar | 24 mm   |
| Overall height     | 9 mm    |
| Mounting depth     | 45.5 mm |
| Mounting hole      | 20.3 mm |

#### Mechanical design

|                     |                                |
|---------------------|--------------------------------|
| Mounting            | ring nut                       |
| Terminals           | solder/quick connect terminals |
|                     | 2.8 x 0.8 mm                   |
| Contact system      | bridge contact                 |
| Contact function    | momentary                      |
| Contact arrangement | see order block                |
| Contact materials   | Ag                             |
| Illumination        | yes                            |
| Lamp socket         | BA 9 s                         |

#### Mechanical characteristics

|                      |        |
|----------------------|--------|
| Operating force max. | 10 N   |
| Operating travel     | 3.6 mm |
| Switching travel NC  | 0.8 mm |
| Switching travel NO  | 2.9 mm |
| Robustness min.      | 100 N  |

#### Electrical characteristics

|                                      |        |
|--------------------------------------|--------|
| Rated voltage AC max.                | 250 V  |
| Rated current max.                   | 2 A    |
| Contact resistance acc. to life max. | 200 mΩ |

#### Other specifications

|                                         |                                           |
|-----------------------------------------|-------------------------------------------|
| Operating life (operations)             | 100,000                                   |
| Degree of protection from front side    | IP40 (IP65 with sealing cap)              |
| Operation temperature min.              | -25 °C                                    |
| Ambient temp. operating max.            | +85 °C                                    |
| Storage temperature min.                | -40 °C                                    |
| Storage temperature max.                | +90 °C                                    |
| Environmental resistance                | acc. to IEC 60068-2 -14, -30, -33 and -78 |
| Weight                                  | 18 g                                      |
| Flame class acc. to UL 94               | V 0                                       |
| Hot wire ignition acc. to IEC 60695-2-1 | yes                                       |

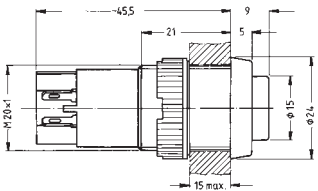
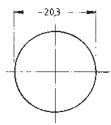
### Typical accessories Pushbutton with lamp socket BA9s - (MBC/MCC), mounting hole diameter 20.3 mm, 250 V/2 A

| Description                                    | Photo | Order no.                | Additional accessories see page |
|------------------------------------------------|-------|--------------------------|---------------------------------|
| Filament lamp, BA 9s base (MBC/MCC), 12 - 15 V |       | <b>1.90.060.003/0000</b> | 5 - 7                           |
| Filament lamp, BA 9s base (MBC/MCC), 24 - 30 V |       | <b>1.90.060.014/0000</b> | 5 - 7                           |
| LED BA 9s (MBC/MCC) superbright, red, 24 V     |       | <b>1.90.690.341/0000</b> | 5 - 17                          |

## Typical accessories Pushbutton with lamp socket BA9s - (MBC/MCC), mounting hole diameter 20.3 mm, 250 V/2 A

| Description                                   | Photo                                                                              | Order no.                | Additional accessories see page |
|-----------------------------------------------|------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| LED BA 9s (MBC/MCC) superbright, green, 24 V  |   | <b>1.90.690.342/0000</b> | 5 - 17                          |
| LED BA 9s (MBC/MCC) superbright, yellow, 24 V |   | <b>1.90.690.343/0000</b> | 5 - 17                          |
| LED BA 9s (MBC/MCC) superbright, blue, 24 V   |   | <b>1.90.690.344/0000</b> | 5 - 17                          |
| LED BA 9s (MBC/MCC) superbright, white, 24 V  |   | <b>1.90.690.345/0000</b> | 5 - 17                          |
| Silicone sealing cap (IP65)                   |   | 5.52.008.065/0000        |                                 |
| Protective sleeve for terminals               |   | <b>5.52.011.030/0100</b> |                                 |
| Fixing spanner M 20, M 22, for ring nut       |  | <b>5.58.002.018/0105</b> | 5 - 21                          |

## Pushbutton with lamp socket BA9s - (MBC/MCC), mounting hole diameter 20.3 mm, 250 V/2 A

| <div style="display: flex; align-items: center; justify-content: space-around;">    </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span>Pict.: with red lens</span> <span>Mounting hole</span> </div> |                     |                        |                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|------------------------------------------------|
| Contact function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Contact arrangement | Order no. without lens | Note                                           |
| momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 NO                | 1.15.112.101/0000      | Please include the desired lens in your order. |
| momentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 NC + 1 NO         | 1.15.112.121/0000      | Please include the desired lens in your order. |

Technical data see page 1 - 82

### Lenses:

Lens, transparent colourless: 5.49.205.008/1002  
 Lens, transparent red: 5.49.205.008/1303  
 Lens, transparent yellow: 5.49.205.008/1402  
 Lens, transparent green: 5.49.205.008/1502

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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