



- ☐ Rear mounting for easier installation
- ☐ Latching action metal models
- ☐ Fixed or variable panel thickness
- ☐ Illuminated or non-illuminated
- ☐ Flat actuator for optional marking
- ☐ Sealed to IP67

### ENVIRONMENTAL AND GENERAL SPECIFICATIONS

- Degree of protection : IP67
- Temperature range : -40°C to +85°C
- Total travel : 2,5 mm (.098)
- Mechanical life : 200.000 cycles

### ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load : 100mA 24VDC - 200.000 cycles
- Initial contact resistance : 100 mΩ max.
- Insulation resistance : 1 GΩ min. at 500VDC
- Dielectric strength : 1.500 Vrms between terminals  
1.000 Vrms between terminals and frame

#### LED COMPONENT SPECIFICATIONS

| LED colour      | Forward current | Typ. forward voltage | Max. forward voltage |
|-----------------|-----------------|----------------------|----------------------|
| Super red (LOS) | 20mA            | 1,95V                | 1,95V                |
| Yellow (LOY)    | 20mA            | 2V                   | 2,05V                |
| Green (LOG)     | 20mA            | 3,2V                 | 3,70V                |
| Blue (LOB)      | 20mA            | 3,2V                 | 4V                   |

A resistor must be series-connected by the user.

Resistor value =  $\frac{\text{supply voltage} - \text{LED forward voltage}}{\text{LED forward current}}$

On flying lead versions, the LED resistor can be integrated by APEM on request.

### MATERIALS

- Case : thermoplastic UL94-V0
- Plunger : polyamide
- Bushing/bezel : brass, nickel plated
- Contacts : silver, gold plated
- Multi-wire lead AWG20, section 0,6 mm<sup>2</sup>
- LED wire : AWG26, section 0,12 mm<sup>2</sup>
- Lens : polycarbonate
- Terminal seal : epoxy

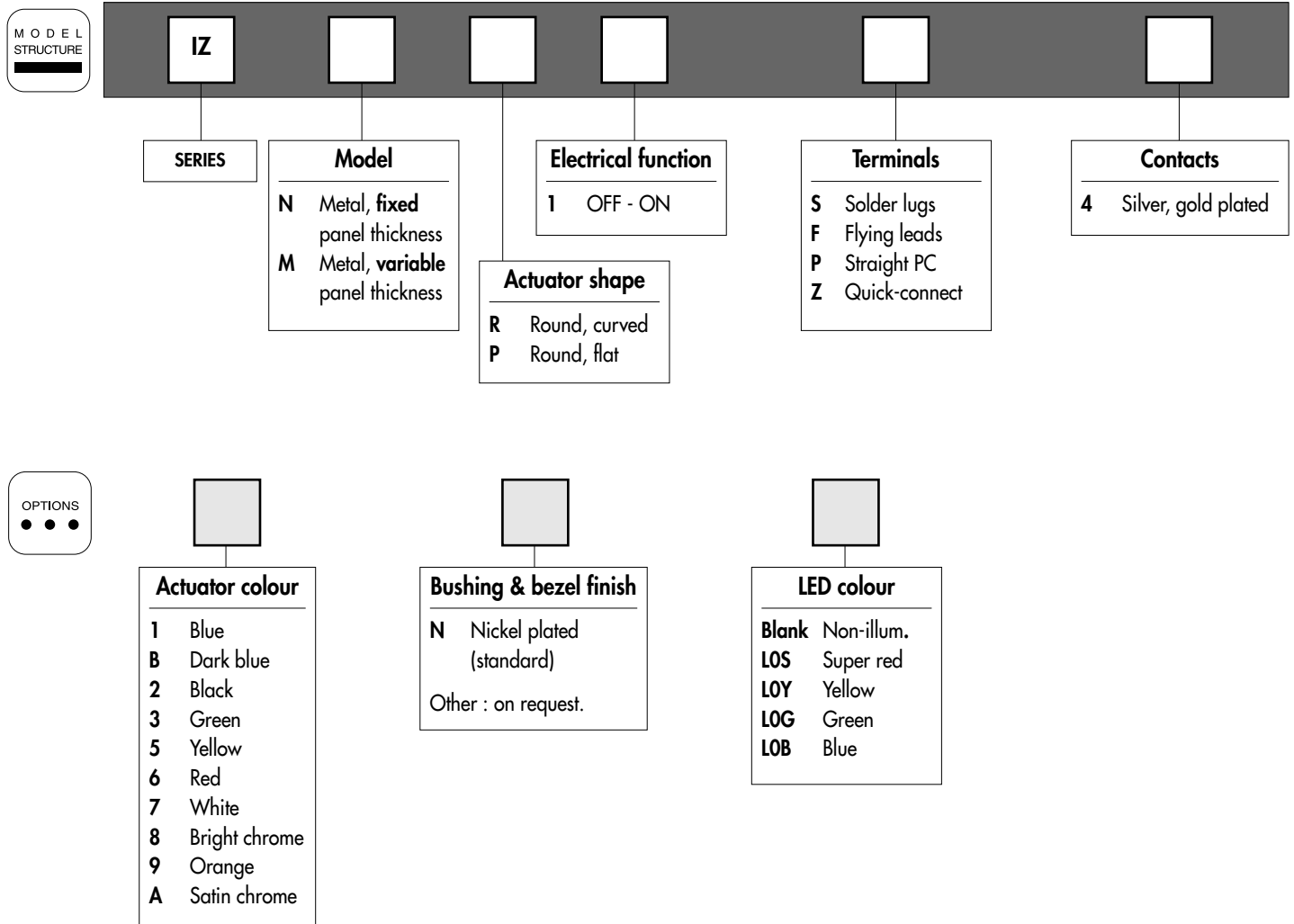
**Dimensions** : First dimensions are in mm while inches are shown as bracketed numbers.

**Tolerance** : The general tolerance for dimensions in this brochure is ± 0,3 (.012).

Overall dimension tolerance is ± 0,5 (.020).

Dimensions, specifications and data shown in this catalogue are subject to change without notice.

### Overview



### ABOUT THIS SERIES

On the following pages, you will find successively :  
model structure of switches and options in the same order as in above chart

**Dimensions** : first dimensions are in mm while inches are shown as bracketted numbers.



**NOTICE** : please note that not all combinations of above numbers are available.  
Refer to the following pages for further information.

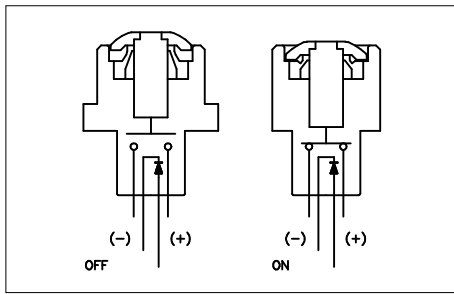


**Mounting accessories** : Standard hardware supplied :

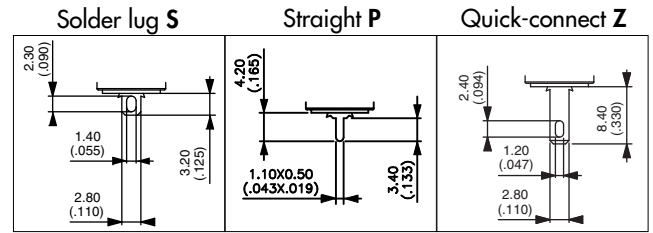
- IZN : 1 castellated nickel plated brass nut U6911 + 1 O-ring
- IZM : 1 castellated nickel plated brass nut U6911 + 1 silicone flat seal + 1 hex nut 19 mm (.748) across flats U4116.



**Packaging unit** : 25 pieces for flying lead models - 40 pieces for other models



- Four LED colours
- Tin plated LED terminals
- Gold plated contacts

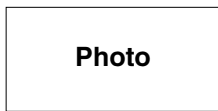


### MODEL STRUCTURE



Plunger marking available on IZ•P models (symbol 10 mm max.). On request.

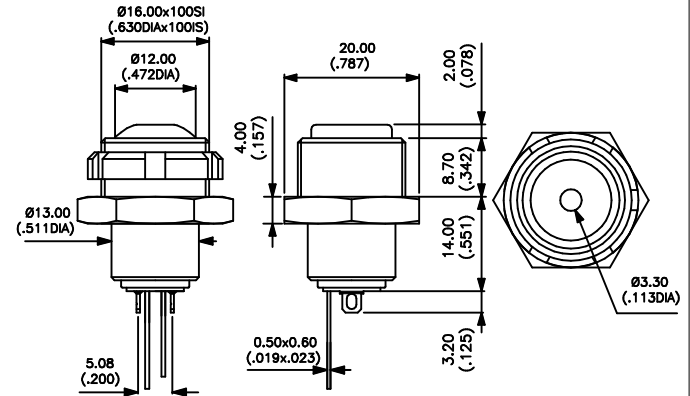
### Fixed panel thickness - solder lug terminals



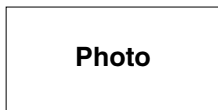
Curved actuator  
**IZNR1S4** OFF - ON

Flat actuator  
**IZNP1S4** OFF - ON

Also available with straight PC terminals :  
**IZN•1P4** & quick-connect terminals : **IZN•1Z4**.



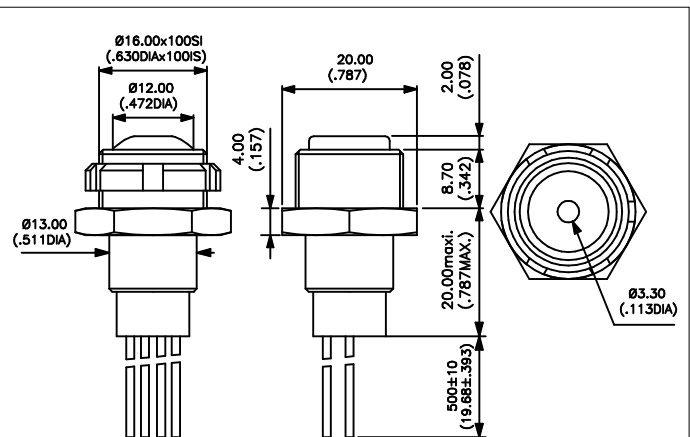
### Fixed panel thickness - flying lead terminals



Curved actuator  
**IZNR1F4** OFF - ON

Flat actuator  
**IZNP1F4** OFF - ON

Wire colours : black : contact,  
red : LED anode(+), blue : LED cathode (-)



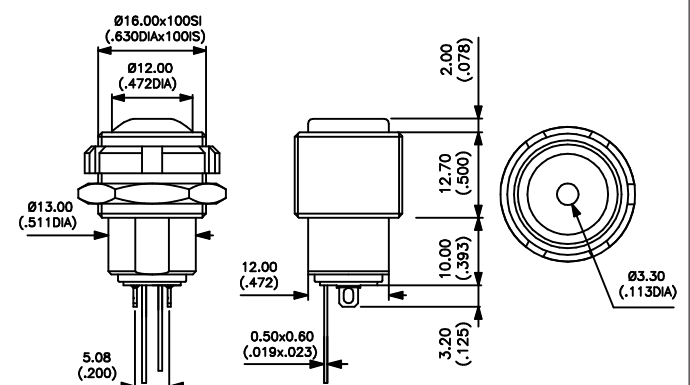
### Variable panel thickness - solder lug terminals



Curved actuator  
**IZMR1S4** OFF - ON

Flat actuator  
**IZMP1S4** OFF - ON

Also available with straight PC terminals :  
**IZM•1P4** & quick-connect terminals : **IZM•1Z4**.



# IZ series

Preliminary

Rear mounted sealed pushbutton switches - bushing Ø 16 - metal - latching

Illuminated

## Variable panel thickness - flying lead terminals



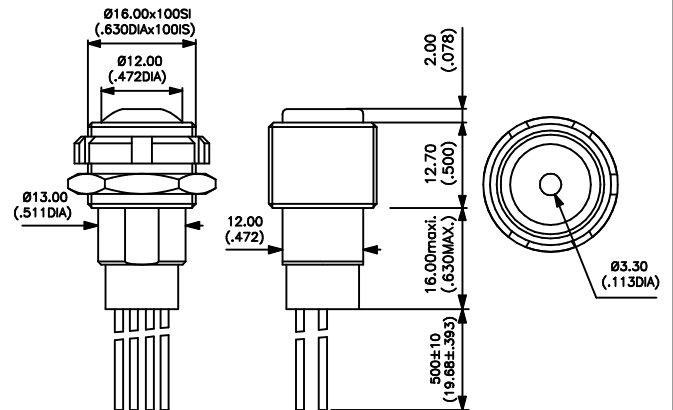
Curved actuator  
**IZMR1F4**

OFF - ON

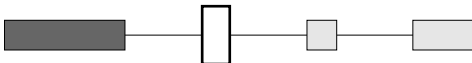
Flat actuator  
**IZMP1F4**

OFF - ON

Wire colours : black : contact,  
red : LED anode(+), blue : LED cathode (-)

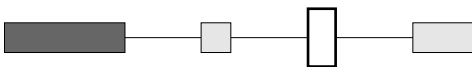


## ACTUATOR COLOUR



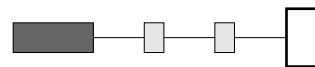
1 : blue - B : dark blue - 2 : black - 3 : green - 5 : yellow - 6 : red - 7 : white - 8 : bright chrome - 9 : orange  
A : satin chrome

## BUSHING AND BEZEL COLOUR

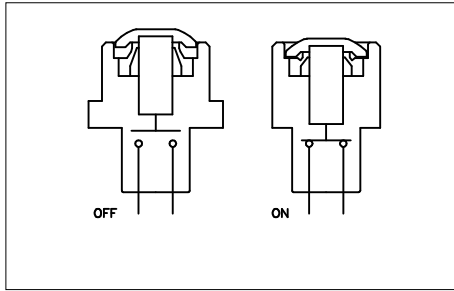


N : nickel plated (standard)  
Other : on request.

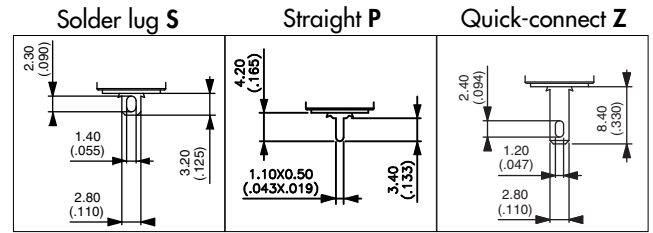
## LED COLOUR



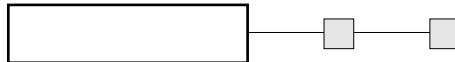
LOS : super red - LOY : yellow - LOG : green  
LOB : blue



- Gold plated contacts



### MODEL STRUCTURE



Plunger marking available on IZ•P models (symbol 10 mm max.). On request.

### Fixed panel thickness - solder lug terminals



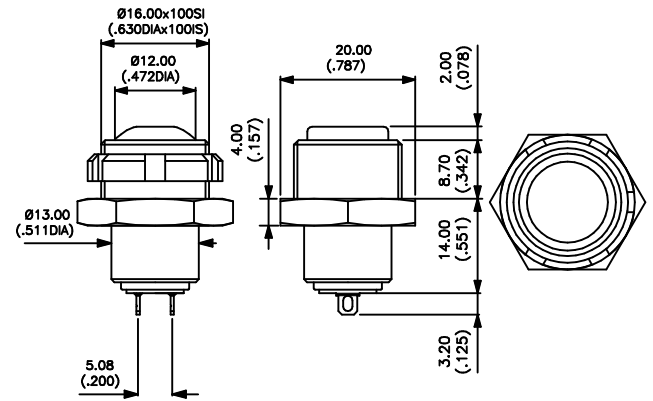
Curved actuator  
**IZNR1S4**

OFF - ON

Flat actuator  
**IZNP1S4**

OFF - ON

Also available with straight PC terminals :  
**IZN•1P4** & quick-connect terminals : **IZN•1Z4**.



### Variable panel thickness - solder lug terminals



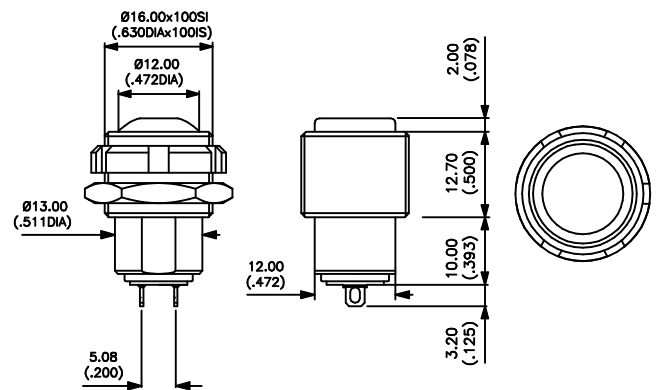
Curved actuator  
**IZMR1S4**

OFF - ON

Flat actuator  
**IZMP1S4**

OFF - ON

Also available with straight PC terminals :  
**IZM•1P4** & quick-connect terminals : **IZM•1Z4**.



For FLYING LEAD versions, refer to previous pages (illuminated models). Non-illuminated have 2 wires only.

### ACTUATOR COLOUR



1 : blue - B : dark blue - 2 : black - 3 : green - 5 : yellow - 6 : red - 7 : white - 8 : bright chrome - 9 : orange  
A : satin chrome

### BUSHING AND BEZEL COLOUR



N : nickel plated (standard)  
Other : on request.



- ☐ Rear mounting for easier installation
- ☐ Momentary models
- ☐ Illuminated or non-illuminated
- ☐ Flat actuator for optional marking
- ☐ Sealed to IP67
- ☐ Screw version available up to 4A

### ENVIRONMENTAL AND GENERAL SPECIFICATIONS

- Degree of protection : IP67
- Temperature range : -40°C to +85°C
- Total travel : 1,7 mm (.067)
- Mechanical life : 1.000.000 cycles

### ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
  - Gold plated silver contacts (code 4) : 200mA 48VDC - 200mA 250VAC
  - Silver contacts (code 2) - screw terminals : 2A 250VAC - 4A 48VDC
- Electrical life at full load : 500.000 cycles
- Initial contact resistance : 100 mΩ max.
- Insulation resistance : 1 GΩ min. at 500VDC
- Dielectric strength : 1.000 Vrms 50 Hz

#### LED COMPONENT SPECIFICATIONS

| LED colour      | Forward current | Typ. forward voltage | Max. forward voltage |
|-----------------|-----------------|----------------------|----------------------|
| Super red (LOS) | 20mA            | 2,1V                 | 2,3V                 |
| Yellow (LOY)    | 20mA            | 2,1V                 | 2,3V                 |
| Green (LOG)     | 20mA            | 2,1V                 | 2,3V                 |
| Blue (LOB)      | 20mA            | 3,2V                 | 3,8V                 |
| White (LOW)     | 20mA            | 3,35V                | 4,25V                |

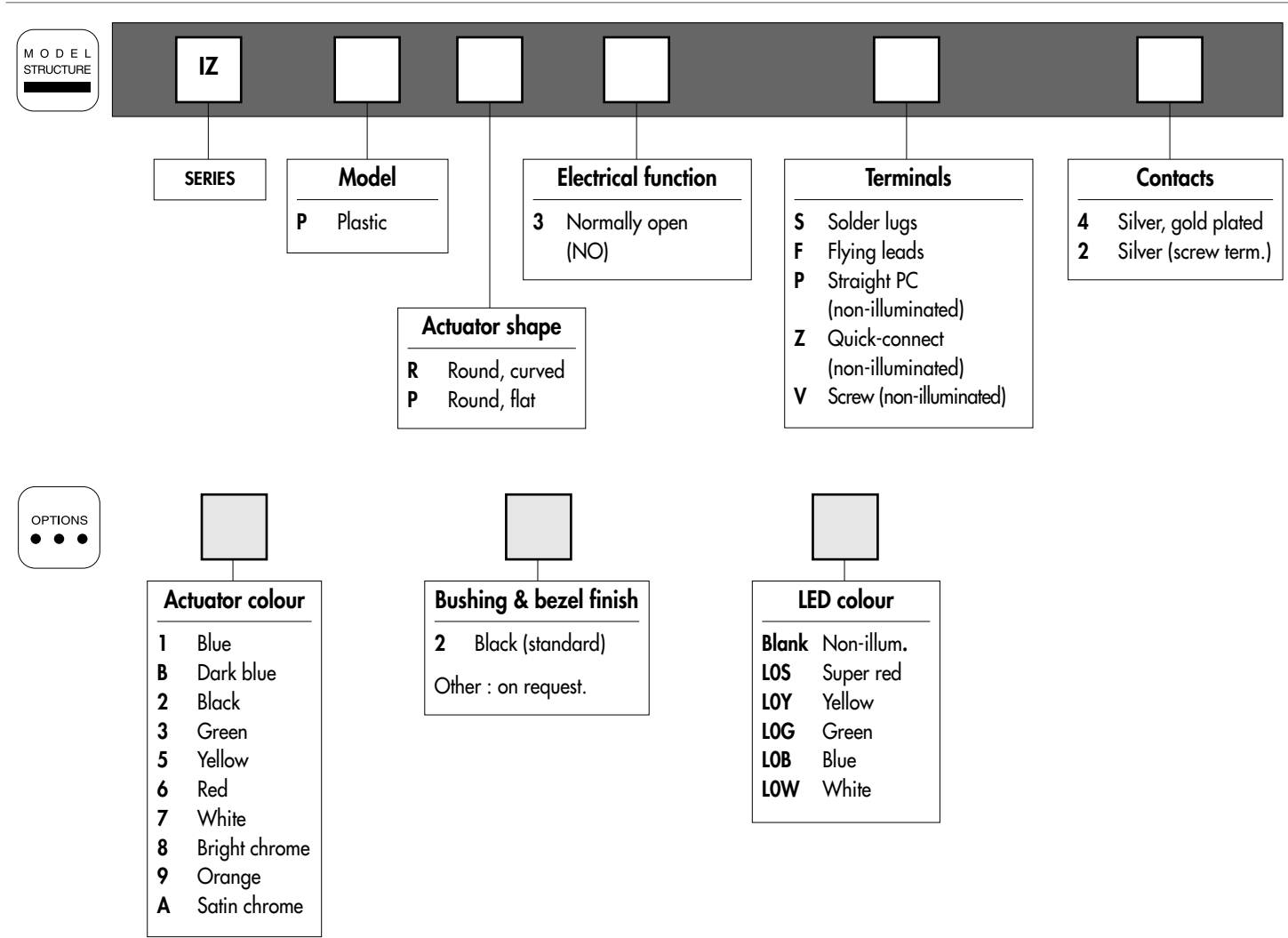
A resistor must be series-connected by the user.

Resistor value =  $\frac{\text{supply voltage} - \text{LED forward voltage}}{\text{LED forward current}}$

On flying lead versions, the LED resistor can be integrated by APEM on request.

### MATERIALS

- Case : thermoplastic UL94-V0
- Plunger : polyamide
- Bushing/bezel : polyamide
- Contacts :
  - 4 : silver, gold plated
  - 2 : silver (screw terminals)
- Multi-wire lead AWG20, section 0,6 mm<sup>2</sup>
- LED wire : AWG26, section 0,12 mm<sup>2</sup>
- Lens : polycarbonate
- Terminal seal : epoxy



**ABOUT THIS SERIES**  
On the following pages, you will find successively :  
model structure of switches and options in the same order as in above chart

**Dimensions** : first dimensions are in mm while inches are shown as bracketted numbers.

 **NOTICE** : please note that not all combinations of above numbers are available.  
Refer to the following pages for further information.

 **Mounting accessories** : Standard hardware supplied : 1 castellated black plastic nut U4249 and 1 silicone flat seal.

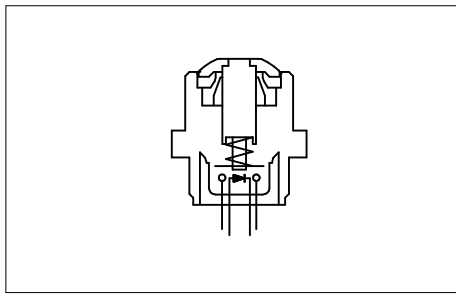
 **Packaging unit** : 25 pieces for flying lead models - 40 pieces for other models

# IZ series

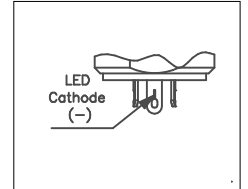
Preliminary

## Rear mounted sealed pushbutton switches - bushing Ø 16 - momentary

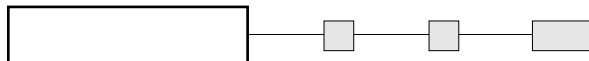
Illuminated



- Five LED colours
- Tin plated LED terminals
- Gold plated contacts



### MODEL STRUCTURE



Plunger marking available on IZPP models (symbol 10 mm max.). On request.

### Solder lug terminals



Curved actuator  
**IZPR3S4**

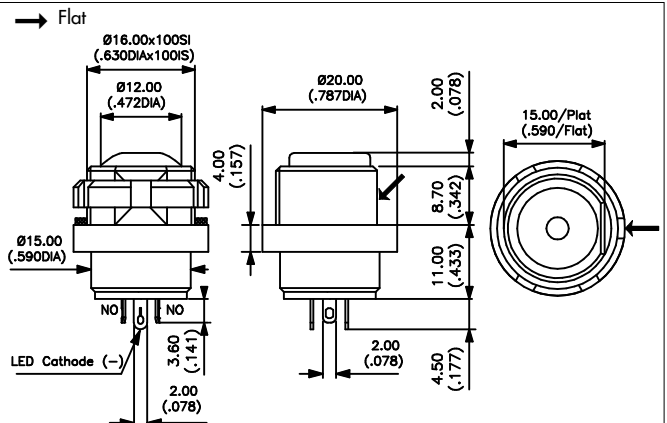


Normally Open

Flat actuator  
**IZPP3S4**



Normally Open



### Flying lead terminals - momentary



Curved actuator  
**IZPR3F4**



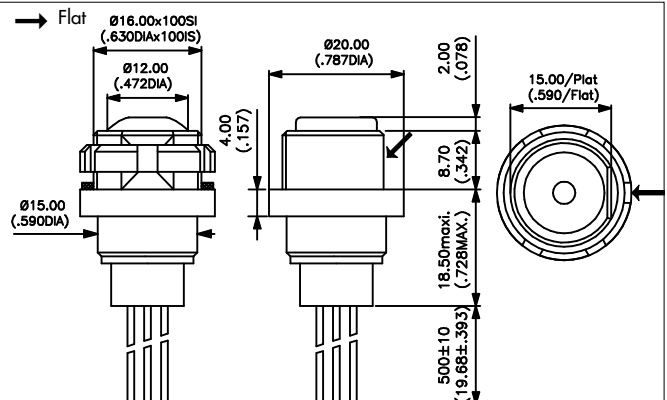
Normally Open

Flat actuator  
**IZPP3F4**



Normally Open

Wire colours : black : NO contact,  
red : LED anode(+), blue : LED cathode (-)

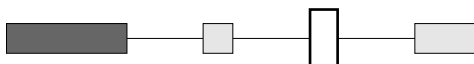


### ACTUATOR COLOUR



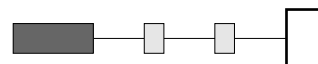
1 : blue - B : dark blue - 2 : black - 3 : green - 5 : yellow - 6 : red - 7 : white - 8 : bright chrome - 9 : orange  
A : satin chrome

### BUSHING AND BEZEL COLOUR



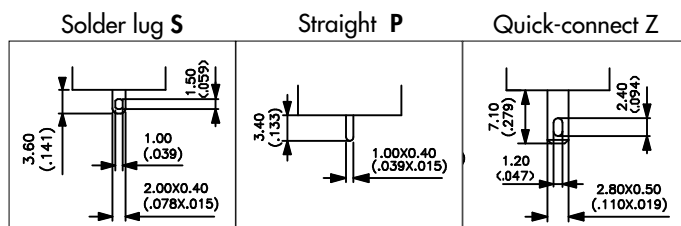
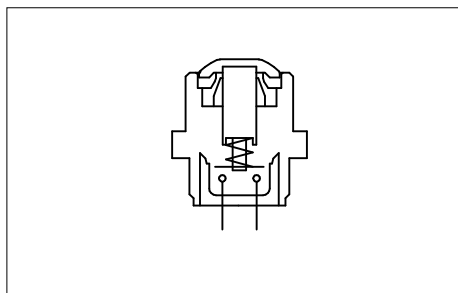
2 : black (standard)  
Other : on request.

### LED COLOUR

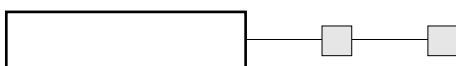


LOS : super red - LOY : yellow - LOG : green  
LOB : blue - LOW : white





### MODEL STRUCTURE



Plunger marking available on IZPP models (symbol 12 mm max.). On request.

### Solder lug terminals - gold plated contacts



Curved actuator  
**IZPR3S4**



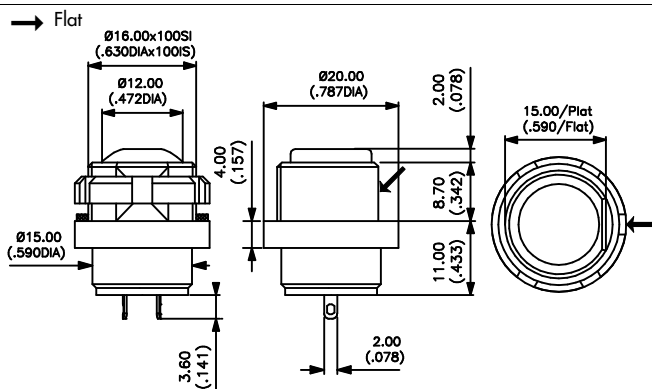
Normally Open

Flat actuator  
**IZPP3S4**



Normally Open

Also available with straight PC terminals :  
**IZP•3P4** and quick-connect terminals : **IZP•3Z4**.



### Sealed flying lead terminals - gold plated contacts



Curved actuator  
**IZPR3F4**

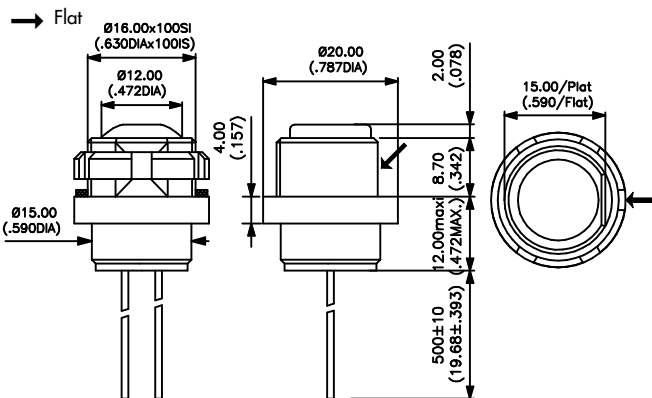


Normally Open

Flat actuator  
**IZPP3F4**



Normally Open



### Screw terminals - silver contacts



Curved actuator  
**IZPR3V2**

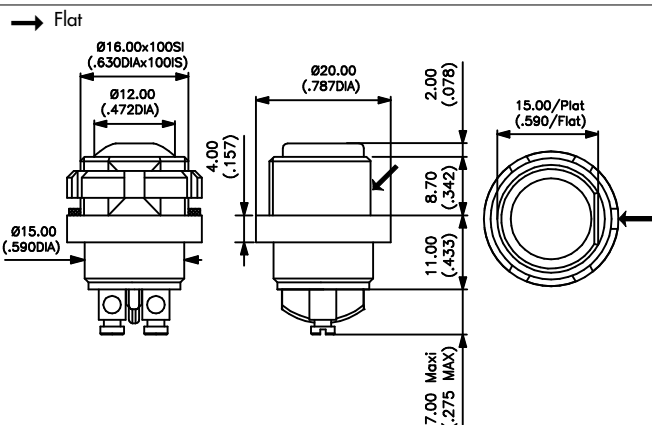


Normally open

Flat actuator  
**IZPP3V2**



Normally open



Actuator colour and bushing/bezel colour : select the desired codes on previous page.



- ☐ Rear mounting for easier installation
- ☐ Latching action models
- ☐ Illuminated or non-illuminated
- ☐ Flat actuator for optional marking
- ☐ Sealed to IP67

### ENVIRONMENTAL AND GENERAL SPECIFICATIONS

- Degree of protection : IP67
- Temperature range : -40°C to +85°C
- Total travel : 2,5 mm (.098)
- Mechanical life : 200.000 cycles

### ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load : 100mA 24VDC - 200.000 cycles
- Initial contact resistance : 100 mΩ max.
- Insulation resistance : 1 GΩ min. at 500VDC
- Dielectric strength : 1.500 Vrms between terminals

#### LED COMPONENT SPECIFICATIONS

| LED colour      | Forward current | Typ. forward voltage | Max. forward voltage |
|-----------------|-----------------|----------------------|----------------------|
| Super red (LOS) | 20mA            | 1,95V                | 1,95V                |
| Yellow (LOY)    | 20mA            | 2V                   | 2,05V                |
| Green (LOG)     | 20mA            | 3,2V                 | 3,70V                |
| Blue (LOB)      | 20mA            | 3,2V                 | 4V                   |

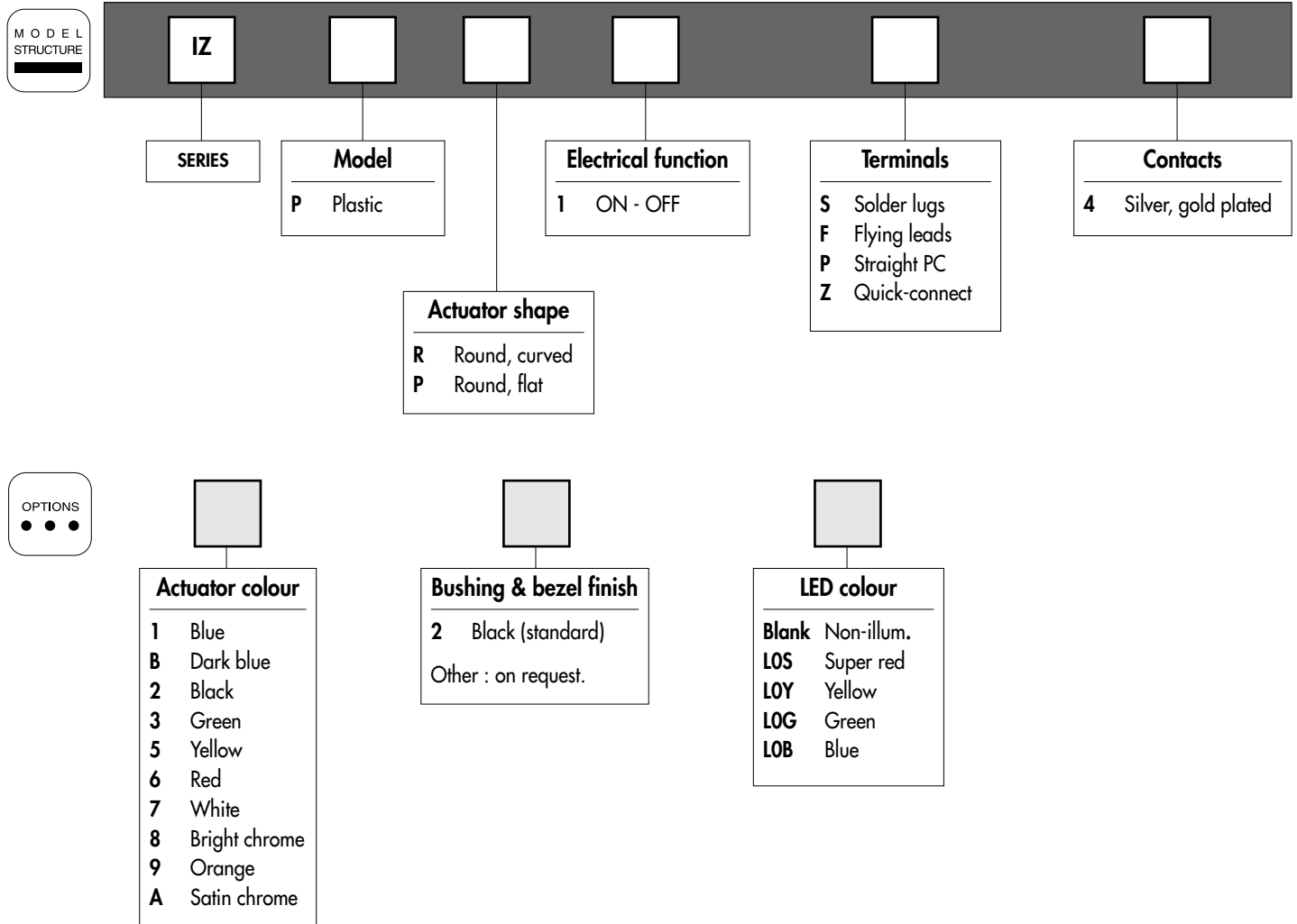
A resistor must be series-connected by the user.

Resistor value =  $\frac{\text{supply voltage} - \text{LED forward voltage}}{\text{LED forward current}}$

On flying lead versions, the LED resistor can be integrated by APEM on request.

### MATERIALS

- Case : thermoplastic UL94-V0
- Plunger : polyamide
- Bushing/bezel : polyamide
- Contacts : silver, gold plated
- Multi-wire lead AWG20, section 0,6 mm<sup>2</sup>
- LED wire : AWG26, section 0,12 mm<sup>2</sup>
- Lens : polycarbonate
- Terminal seal : epoxy



### ABOUT THIS SERIES

On the following pages, you will find successively :  
model structure of switches and options in the same order as in above chart

**Dimensions** : first dimensions are in mm while inches are shown as bracketted numbers.



**NOTICE** : please note that not all combinations of above numbers are available.  
Refer to the following pages for further information.



**Mounting accessories** : Standard hardware supplied : 1 castellated black plastic nut U4249 and 1 silicone flat seal.



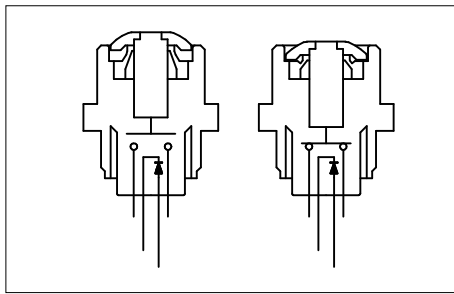
**Packaging unit** : 25 pieces for flying lead models - 40 pieces for other models

# IZ series

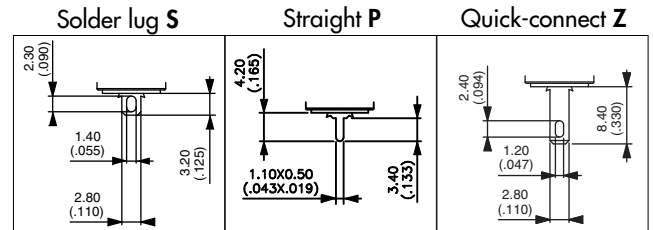
Preliminary

## Rear mounted sealed pushbutton switches - bushing Ø 16 - latching action

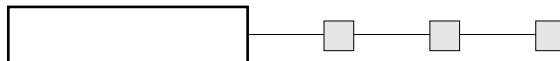
Illuminated



- Four LED colours
- Tin plated LED terminals
- Gold plated contacts



### MODEL STRUCTURE



Plunger marking available on IZPP models (symbol 10 mm max.). On request.

### Solder lug terminals



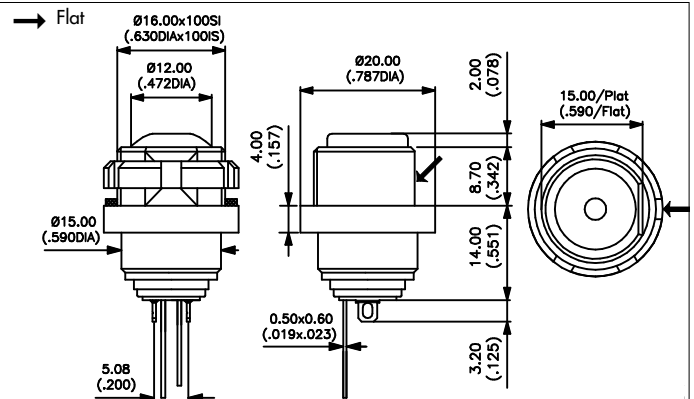
Curved actuator  
**IZPR1S4**

ON - OFF

Flat actuator  
**IZPP1S4**

ON - OFF

Also available with straight PC terminals :  
**IZP•1P4** and quick-connect terminals : **IZP•1Z4**.



### Sealed flying lead terminals



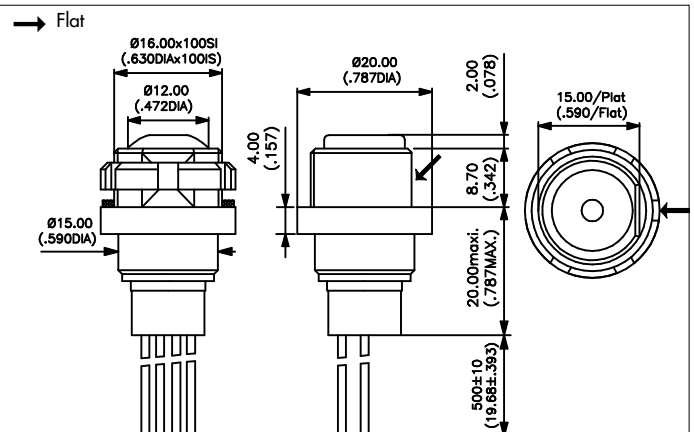
Curved actuator  
**IZPR1F4**

ON - OFF

Flat actuator  
**IZPP1F4**

ON - OFF

Wire colours : black : NO contact,  
red : LED anode(+), blue : LED cathode (-)

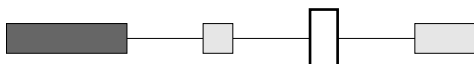


### ACTUATOR COLOUR



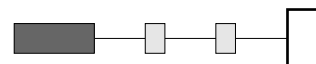
1 : blue - B : dark blue - 2 : black - 3 : green - 5 : yellow - 6 : red - 7 : white - 8 : bright chrome - 9 : orange  
A : satin chrome

### BUSHING AND BEZEL COLOUR

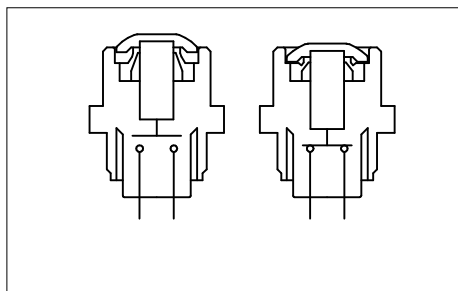


2 : black (standard)  
Other : on request.

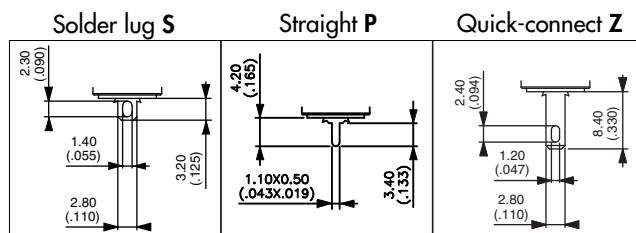
### LED COLOUR



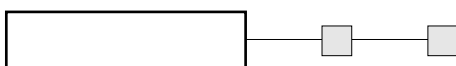
L0S : super red - L0Y : yellow - L0G : green  
L0B : blue



- Gold plated contacts



### MODEL STRUCTURE



Plunger marking available on IZPP models (symbol 10 mm max.). On request.

### Solder lug terminals



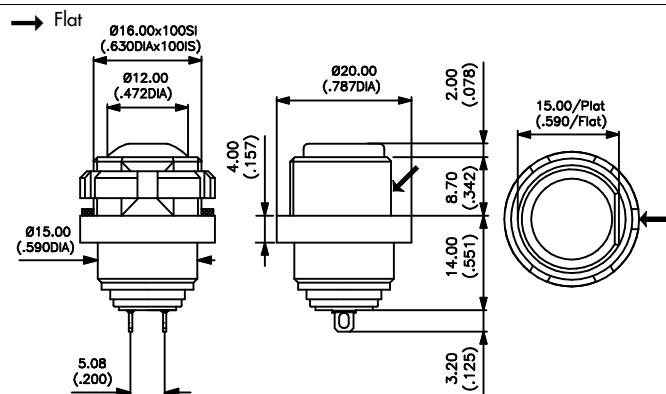
Curved actuator  
**IZPR1S4**

ON - OFF

Flat actuator  
**IZPP1S4**

ON - OFF

Also available with straight PC terminals :  
**IZP•1P4** and quick-connect terminals : **IZP•1Z4**.



### Sealed flying lead terminals

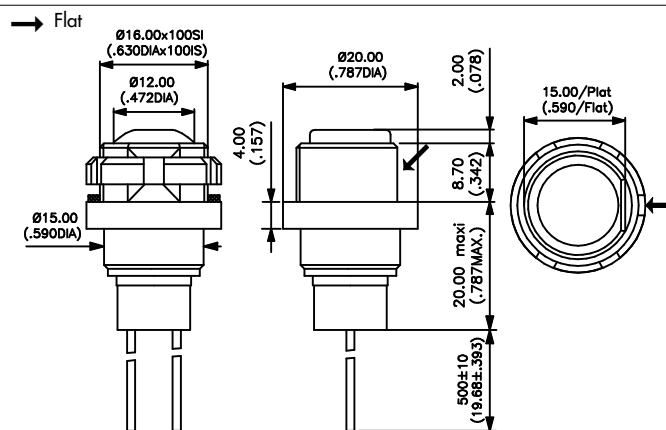


Curved actuator  
**IZPR1F4**

ON - OFF

Flat actuator  
**IZPP1F4**

ON - OFF

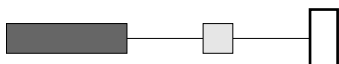


### ACTUATOR COLOUR



1 : blue - B : dark blue - 2 : black - 3 : green - 5 : yellow - 6 : red - 7 : white - 8 : bright chrome - 9 : orange  
A : satin chrome

### BUSHING AND BEZEL COLOUR



2 : black (standard)  
Other : on request.

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

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)