

# Safety module - IB IL 24 LPSDO 8 V2-PAC - 2700606

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Safety-related digital output module, IP20 protection, for the SafetyBridge system. The module has four safe digital outputs with two-channel occupancy or 8 safe digital outputs with single-channel occupancy

## Product description

The safety module is an output module from the Inline product range and is used in a SafetyBridge system. The safety module can be used as a part of an Inline station at any point within an INTERBUS, PROFINET or PROFIBUS system. The transmission speed of the safety module can be set to 500 kbaud or 2 Mbaud using a switch. Only one transmission speed must be used uniformly within a station. The module has four safe digital outputs with two-channel occupancy or eight safe digital outputs with single-channel occupancy. In the SafetyBridge system, you can achieve the following safety integrity by using this safety module depending on the installation and parameterization:

- up to category 4 according to EN 954-1 standard,
- up to SIL 3 according to EN 61508 standard,
- up to SIL CL 3 according to EN 62061 standard,
- up to PL e according to EN ISO 13849-1 standard.

## Product Features

- Generation and monitoring of the SafetyBridge protocol
- Processing of the parameterized safety logic

## Key commercial data

GTIN	 4 046356 585859
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## Technical data

### Note:

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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## Interface

Fieldbus system	Lokalbus
Name	INTERBUS
Connection method	Inline data jumper
Transmission speed	500 kbaud/2 Mbaud, can be selected
Transmission speed	500 kBit/s / 2MBit/s

## Digital outputs

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## Technical data

### Digital outputs

Output name	Digital outputs
Connection method	Spring-cage connection
Connection method	2, 3, 4-wire
Number of outputs	4 (with two-channel assignment)
Number of outputs	8
Protective circuit	Overload protection, short-circuit protection of outputs
Output voltage	24 V DC ( $U_S - 1 V$ )
Nominal output voltage	24 V DC
Output current	max. 6 A (Total current of all outputs, $-25\text{ °C} \dots 50\text{ °C}$ )
Output current	max. 4 A (Total current of all outputs, $>50\text{ °C} \dots 55\text{ °C}$ )
Maximum output current per channel	2 A
Maximum output current per group	3 A
Nominal load, inductive	(see safety data)
Nominal load, lamp	(see safety data)
Nominal load, ohmic	(see safety data)

### Power supply for module electronics

Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC ... 30 V DC
Communications power $U_L$	7.5 V (via voltage jumper)
Current consumption	max. 230 mA (from the local bus)

### SafetyBridge properties

Connection to I/O modules	max. 5 (safe digital I/O modules)
Logic memory	24 kByte

### General data

Width	48.8 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions
Weight	200 g
Note on weight specifications	with male connectors
Mounting type	DIN rail
Ambient temperature (operation)	$-25\text{ °C} \dots 55\text{ °C}$
Ambient temperature (storage/transport)	$-25\text{ °C} \dots 70\text{ °C}$
Permissible humidity (operation)	10 % ... 85 % (Take suitable measures against increased air humidity within the permitted temperature range.)
Permissible humidity (storage/transport)	10 % ... 85 % (Take suitable measures against increased air humidity within the permitted temperature range.)

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## Technical data

### General data

Air pressure (operation)	80 kPa ... 108 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above mean sea level)
Degree of protection	IP20
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	5 V supply, incoming remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
Test section	5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
Test section	7.5 V supply (bus logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min
Test section	24 V supply (I/O) / functional earth ground 500 V AC 50 Hz 1 min
Category according to EN 13849-1	4
Diagnostics messages	Short-circuit / overload of the digital outputs Error message in diagnostics code (bus) and display by means of the LED on the motor

### Inline potential routing

Communications power $U_L$	7.5 V DC (see safety data)
Current consumption from $U_L$	max. 230 mA (see safety data)
Main circuit supply $U_M$	24 V DC (see safety data)
Supply voltage range $U_M$	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current consumption from $U_M$	typ. 30 mA (all outputs set including actuator current)
Current consumption from $U_M$	max. 6.03 A
Segment supply voltage $U_S$	24 V (see safety data)

## Classifications

### ETIM

ETIM 2.0	EC001433
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001601

### UNSPSC

UNSPSC 11	39121311
UNSPSC 12.01	39121311
UNSPSC 13.2	39121311
UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404

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## Classifications

eCl@ss

eCl@ss 4.0	27240404
eCl@ss 4.1	27240404
eCl@ss 5.0	27242204
eCl@ss 5.1	27242604
eCl@ss 6.0	27242604
eCl@ss 7.0	27242604

## Approvals

Approvals

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Approvals

UL Listed / cUL Listed / Functional Safety / cULus Listed

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Ex Approvals

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Approvals submitted

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### Approval details

UL Listed 

cUL Listed 

Functional Safety

cULus Listed 

## Accessories

Accessories

## Safety module - IB IL 24 LPSDO 8 V2-PAC - 2700606

### Accessories

#### Marking

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



Labeling field - IB IL FIELD 8 - 2727515

Labeling field, width: 48.8 mm



Insert strip - ESL 62X10 - 0809492

Insert strip, Sheet, white, Unlabeled, Can be labeled with: Office-Drucksysteme, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 10 mm



Insert strip - ESL 62X46 - 0809502

Insert strip, Sheet, white, Unlabeled, Can be labeled with: Office-Drucksysteme, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 46 mm



#### Plug/Adapter

Connector set - IB IL 24 SDO 8-PLSET/CP - 2916927



Connector set (yellow), color coded, for safe SDO boards.

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### Accessories

User manual - UM DE IB IL 24 SDO 8-PAC - 2888835



User Manual, German, for INTERBUS Safety output modules

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User manual - UM EN IB IL 24 SDO 8-PAC - 2888864



User Manual, English for PLCopen-certified INTERBUS Safety function blocks

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User manual - UM QS EN IB IL 24 PSDX - S7 - 2910648



User manual, English

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User manual - UM QS DE IB IL 24 PSDX - S7 - 2910651



User manual, german

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Тел: +7 (812) 336 43 04 (многоканальный)  
Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)