

# PSR-M-E2-DO16-PI - Extension module



1105136

<https://www.phoenixcontact.com/us/products/1105136>

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Extension module with 16 signal outputs, TBUS interface, plug-in Push-in terminal block, TBUS connector included

## Product description

The configurable and individually scalable PSRmodular safety system is a flexible safety solution for monitoring your machine or system. The extension module provides the system with additional signal outputs.

## Your advantages

- Cost-effective safety solution with a high level of adaptability to individual requirements
- Fast startup, thanks to easy hardware and software configuration
- Machine downtimes minimized with comprehensive, easy-to-understand diagnostics
- Tool-free and time-saving installation thanks to Push-in technology
- Low housing width of just 22.6 mm

## Commercial data

Item number	1105136
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN02
Product key	DNA364
GTIN	4055626975900
Weight per piece (including packing)	175.4 g
Weight per piece (excluding packing)	175.4 g
Customs tariff number	85371098
Country of origin	IT

## Technical data

### Notes

#### Note on application

Note on application	Only for industrial use
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### Product properties

Product type	Coupling relay
Application	Extension module

#### Insulation characteristics

Protection class	III (EN 50178)
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#### Insulation characteristics

Overvoltage category	II
Degree of pollution	2

#### Times

Response time	see user manual
Restart time	min. 5 s (Boot time)
	max. 10 s (Boot time)

### Electrical properties

Maximum power dissipation for nominal condition	3.5 W (with max. permissible load)
Nominal operating mode	100% operating factor
Interfaces	DIN rail TBUS for connection to the master module, supplied as standard
Rated surge voltage/insulation	Basic insulation 4 kV between all current paths and housing

#### Supply

Designation	A1/A2
Rated control circuit supply voltage $U_S$	19.2 V DC ... 28.8 V DC
Rated control circuit supply voltage $U_S$	24 V DC -20 % / +20 % (provide external protection, typically 5 A)
Rated control supply current $I_S$	typ. 30 mA
Power consumption at $U_S$	typ. 0.72 W
Inrush current	2 A ( $\Delta t = 1$ ms at $U_S$ )
Filter time	typ. 5 ms (at A1 in the event of voltage dips at $U_S$ )
Protective circuit	Serial protection against polarity reversal
	Suppressor diode

#### Supply

Designation	24V/A2
Rated control circuit supply voltage $U_S$	24 V DC -20 % / +20 % (provide external protection, typically 5 A)
Rated control supply current $I_S$	typ. 20 mA (Outputs active, without load)

Inrush current	10 A (at both terminal points 5 and 6, $\Delta t = 1 \text{ ms}$ at $U_S$ )
Filter time	typ. 1 ms (in the event of voltage dips)
Protective circuit	Suppressor diode

## Output data

Signal: MO1 ... MO16

Output description	PNP, IEC 61131-2 Typ 0,1
	non-safety-related
	Reference ground A2
Number of outputs	16
Output voltage when switched off	max. 0.1 V
Output voltage range	18.2 V DC ... 27.8 V DC ( $U_S - 1 \text{ V}$ )
Voltage	24 V DC (via 24 V)
Maximum inrush current	1.1 A ( $\Delta t = 3 \text{ s}$ at $U_S$ )
Limiting continuous current	100 mA (per channel)
	1.6 A (Total current of all digital signal outputs)
Leakage current	max. 100 $\mu\text{A}$
Ohmic load	min. 180 $\Omega$ (Observe limiting continuous current)
Switching frequency	max. $1/(4 \times t_{\text{Cycle}})$ [Hz]
Protective circuit	Suppressor diode
Short-circuit protection	Yes (self-limitation at 1.1 A)
Discharging circuit	No
Cable length	max. 100 m (per output)

## Connection data

Connection technology

pluggable	yes
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Conductor connection

Connection method	Push-in connection
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 14
Stripping length	10 mm

## Signaling

Status display	1 x LED (green), 2 x LED (orange)
	16 x LED (yellow)
Operating voltage display	1 x LED (green)
Error indication	2 x LED (red)

## Dimensions

Width	22.61 mm
Height	107.74 mm

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Depth	113.6 mm
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## Material specifications

Color (Housing)	yellow (RAL 1018)
Housing material	Polyamide PA non-reinforced

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Ambient temperature (operation)	-10 °C ... 55 °C (observe derating)
Ambient temperature (storage/transport)	-20 °C ... 85 °C
Maximum altitude	≤ 2000 m (Above sea level)
Max. permissible humidity (storage/transport)	95 % (non-condensing)
Max. permissible relative humidity (operation)	95 % (non-condensing)
Shock	10g for $\Delta t = 16$ ms (continuous shock, 1000 shocks in each space direction)
Vibration (operation)	10 Hz ... 150 Hz, 2g

## Mounting

Mounting type	DIN rail mounting
Assembly note	Observe derating
Mounting position	vertical or horizontal

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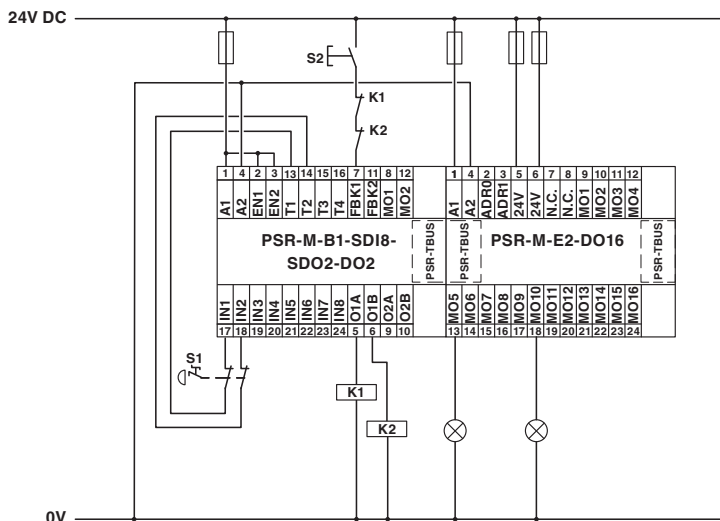


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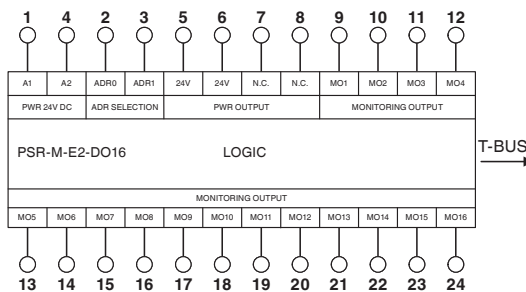
## Drawings

Application drawing



Example application

Block diagram



Block diagram

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## Approvals

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### cULus Listed

Approval ID: E238705



### Functional Safety

Approval ID: Z10029429 0013Rev.02

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## Classifications

### ECLASS

ECLASS-13.0	27371819
ECLASS-15.0 ASSET	27250101
ECLASS-15.0	27371819

### ETIM

ETIM 10.0	EC001449
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### UNSPSC

UNSPSC 21.0	39122200
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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### EF3.1 Climate Change

CO2e kg	24.107 kg CO2e
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