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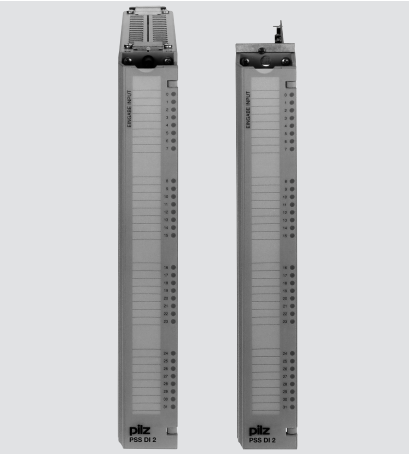
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Digital Input
PSS DI 2, PSS1 DI 2



Digital input circuits with integral software algorithms and redundant design for safety-related functions.

Features

- Failsafe modules have type-approval
- Whole system is approved by BG and TÜV
- Failsafe in accordance with EN IEC 61508, SIL 3 and with EN 954-1, 11/94, up to category 3 without additional test pulses, and category 4 if test pulses are used
- 32 digital inputs
- Galvanic isolation for a high level of noise suppression
- Integral protection circuits for trouble-free installation

Approvals

	PSS DI 2	PSS1 DI 2
BG PRÜFZERT	●	●
TÜV PRODUCT SERVICE	●	●
c UL us LISTED	●	●

Technical Details	PSS DI 2	PSS1 DI 2
Function	Digital input	
Application Range	Failsafe applications conforming to EN 954-1, 11/94, DIN V 19 250, 01/89, DIN VDE 0116, EN IEC 61508	
Electrical Data		
Supply Voltage	24 VDC	24 VDC
Tolerance Range	20 ... 30 VDC including residual ripple	
Galvanic Isolation	Yes (optocoupler, transformer)	
Connection Type	AWG 12 screw connectors	
Inputs		
Number	32	32
Potential Isolation	Yes (optocoupler)	Yes (optocoupler)
Signal Level at “0”	-3 ... +5 VDC	-3 ... +5 VDC
Signal Level at “1”	+15 ... +30 VDC	+15 ... +30 VDC
Input Current	Typ. 6 mA	Typ. 6 mA
Input Delay	E0 ... E15: 1 ms, E16 ... E31: 3 ms	
Pulse suppression	≤ 300 µs (on condition that "Max. delay of dig. inputs“ or "DI test time“ in the PSS Configurator are configured as 3 ms)	
Status Indicator	LED	LED
Mechanical Data		
Size (H x W x D)	257 x 41 x 220 mm	265 x 41 x 218 mm
Space Requirement	1 slot	1 slot
Weight	900 g	480 g
Environmental Data		
Protection Type	IP 20, installed on module rack	
Ambient Temperature	0 ... +60 °C	0 ... +60 °C
Storage Temperature	-25 ... +70 °C	-25 ... +70 °C
Climatic Suitability	IEC 68-2-30, IEC 68-2-14	
Condensation	Not permitted	
Vibration to IEC 68-2-6	Frequency range: 10 ... 100 Hz Amplitude: 0.1 mm, max. 5 g	

Order References		
System	PSS 3000	PSS 3100
Description	PSS DI 2	PSS1 DI 2
Order Number	301 101	302 101

Description

The PSS 3000/PSS 3100 can process the status of inputs in bits, bytes or words. Each input has space available for inscription and a status LED.
The inputs are suitable for connecting:

- single-channel safety-related input devices, with or without test pulse
- dual-channel safety-related input devices, with or without test pulses.

Applications conforming to EN 954-1, 11/94 up to and including category 3 will not require additional test pulses. Category 4 applications will require external test pulses.
Input devices are connected via plug-in screw connectors. The module’s address is established by its slot number on the module rack.
On the CPUs listed below, the module is only supported from the version number stated:

- PSS CPU from Version 1.7 onwards
- PSS1 CPU from Version 1.1 onwards

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