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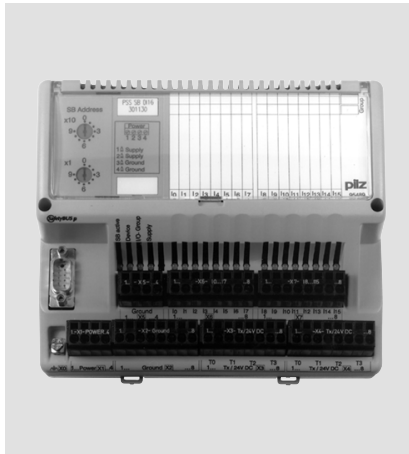
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## Decentralised digital input for SafetyBUS p® PSS SB DI16



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

### Features

- Safety BUS p connection
- 16 digital inputs
- 4 dedicated test pulse outputs
- Galvanic isolation for a high level of noise suppression between SafetyBUS p® and the inputs
- Integral protection circuits for trouble-free commissioning
- Inputs can be allocated to a maximum of two groups on SafetyBUS p®
- A fibre-optic coupler may be connected to SafetyBUS p

### Approvals

	PSS SB DI16
	●
	●
	●

Technical details	PSS SB DI16
Function	Digital input
Application range	Failsafe applications conforming to EN 954-1, up to Cat. 4 and DIN V 19 250, up to AK 6
<b>Electrical data</b>	
Supply voltage	24 V DC
Tolerance	20 ... 30 V DC including residual ripple of max. ± 1.2 V
Power consumption	"Supply": 90 mA plus load currents from the test pulse outputs and load currents for fibre-optic couplers (25 mA per fibre-optic coupler)
Galvanic isolation	Yes (optocoupler), between inputs and SafetyBUS p®
Connection type for inputs	Spring-loaded terminals or plug-in screw connectors
<b>SafetyBUS p®</b>	
Transmission rate	Max. 500 kBit/s
Cable runs	Max. 3500 m
Transmission type	Differential two wire cable, Fibre-optic cable via fibre-optic coupler
Connection	9-pin D-Sub coupling
<b>Inputs</b>	
Number	16
Potential isolation	Yes, between inputs and SafetyBUS p®
Signal level at „0“	-3 ... +5 VDC
Signal level at „1“	+15 ... +30 VDC
Input current	Typically 6 mA
Input delay	< 1 ms
Pulse suppression	≤ 300 µs
Status indicator	Yellow LED
<b>Dedicated test pulses</b>	
Number	4 (4 terminals per test pulse, can be configured in pairs as 24 V DC-terminals)
Output current at „1“	Max. 0.5 A per terminal
Total load capacity	Max. 0.5 A per terminal pair
Cable length	between test pulse output and input max. 200 m
<b>Mechanical data</b>	
Size (H x W x D)	140 x 170 x 65 mm
Weight	460 g

## Decentralised digital input for SafetyBUS p® PSS SB DI16

### Description

The PSS can read and process the status of inputs in bits or bytes via SafetyBUS p®.

The inputs on the PSS SB DI16 can be allocated to a maximum of two logical groups on SafetyBUS p®.

This takes place in the PSS WIN-PRO system software. 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

The dedicated test pulse outputs are suitable

- for testing input devices with a max. load of 0.5 A

Each of the four test pulses is common to four terminals. The terminals can also be used in pairs as 24 V DC-terminals by configuring them appropriately (in the PSS WIN-PRO system software).

When used in conjunction with the failsafe inputs on the PSS SB DI16, test pulses enable external wiring to be monitored for shorts across currents and external voltage sources.

The module address is established by setting the address switch. Input devices are connected via plug-in screw connectors or spring-loaded terminals.

If you wish you can select between different connection terminals and bus connectors.

Environmental data	PSS SB DI16
Protection type (EN 60529)	IP20
Mounting position	Any
Ambient temperature (EN 60068-2-14)	0 ... +60 °C
Storage temperature (EN 60068-2-1/-2)	-25 ... +70 °C
Climatic suitability (EN 60068-2-78)	Max. 95 % r.h.
Condensation	Not permitted
Vibration (EN 60068-2-6)	Frequency range: 10 ... 150 Hz max. 1g
Vibration resistance (EN 60068-2-27)	15g, 11 ms
EMC	EN 50082-2 EN 55011 A

Order references	
System	SafetyBUS p
Description	Order number
PSS SB DI16 without terminals	301 130

Order references accessories	
System	SafetyBUS p
Description	Order number
Set of spring-loaded terminals DI16	311 063
Set of plug-in screw connectors DI16	311 062
Fixing bolts PSS SB DI(O)	311 068

The version of the standards current at 2002-03 shall apply.



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