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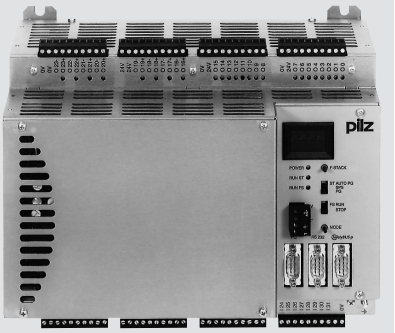
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Find the *Pilz PSS SB 3056* at our website: *Click HERE*

Compact Safety System with SafetyBUS p® Connection

PSS SB 3056



Decentralised compact safety system, suitable for safety-related functions because of its 3-channel diverse structure.

Features

- SafetyBUS p® connection
- Universal system design for all requirements
- Failsafe applications conforming to EN 954-1, 11/94 up to Cat. 4 and DIN V 19 250, 01/89 up to AK 6
- Suitable for both safety-related and standard functions
- Reduced space requirement
- High processing speed for cycles in which time is critical

Approvals

	PSS SB 3056
	●
	●
	●

Technical details	PSS SB 3056
Function	Compact programmable safety system for decentralised applications
Application range	Failsafe applications conforming to EN 954-1, 11/94 / DIN V 19 250, 01/89
Electrical data	
Supply voltage	24 VDC
Tolerance range	20 ... 30 VDC including residual ripple
Power consumption	27 W
Galvanic isolation	Yes (optocoupler)
Connection type	Screw connector
Serial interfaces (galvanically isolated)	SafetyBUS p® RS 232 for user RS 485 for programming device
Data memory	FS section: 16 KByte (non-retentive) ST section: 170 KByte
Program memory	FS section: Integral 256 KByte Flash-EPROM memory ST section: Integral 512 KByte Flash-EPROM memory
SafetyBUS p®	
Transmission rate	Max. 500 kBit/s
Cable runs	Max. 3500 m
Transmission type	Differential two-wire cable
Connection	9-pin D-Sub-coupling
Integral on-board outputs - single-pole	
Number	16
Potential isolation	Per block of 8
Output current at “1”	2 A
Total load capacity per block of 8 at +60 °C	10 A
Permitted range	0 ... 2.5 A
Short circuit protection	Electronic
Limitation of inductive switch off	Approx. U_B - 42 VDC
Simultaneity	100 % up to max. 10 A per block of 8
Residual current at “0”-signal	0 mA
Signal level at “0”	0 V DC
Signal level at “1”	U_B - 1 VDC at 2.5 A
Output switch delay	< 50 µs
Off time during self test	400 ... 500 µs
Status indicator	LED
Integral on-board outputs - dual-pole	
Number	8
Potential isolation	Per block of 8
Output current at “1”	2 A
Total load capacity at +60 °C	10 A
Permitted range	0 ... 2.5 A
Short circuit protection	Electronic
Limitation of inductive switch off	$-U_B$
Simultaneity	100 % up to max. 10 A
Residual current at “0”-signal	Self-test: 5 mA for max. 500 µs
Signal level at “0”	12 VDC (both output terminals)
Signal level at “1”	U_B - 2 VDC at 2.5 A

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Compact Safety System with SafetyBUS p® Connection
PSS SB 3056

Description

The PSS SB 3056 is a decentralised, compact safety system within a single housing. Periphery devices may be connected separately (decentralised) via SafetyBUS p®, or via the integral on-board I/Os. An additional feature to the decentralised I/Os is the ability to connect a safety-related network of several PSS safety systems via SafetyBUS p®.
Safety systems in the PSS-range are divided into a failsafe section and a standard section. Safety-related functions can only be processed through the failsafe section. The failsafe and standard sections communicate without feedback i.e. potential program errors in the standard section will not affect the safety section. The failsafe section of the CPU operates through three diverse channels, ensuring a high level of safety. All inputs and outputs are processed separately by each channel. Each channel compares the result with the two adjacent channels. Input and output signals are only valid if all three channels reach the same result (3oo3).
The PSS SB 3056 has an integral Flash-EPROM program memory with 512 KByte for the standard and 256 KByte for the failsafe section. The unit includes two serial interfaces: an RS 232 interface that is available to the user and an RS 485 that is used for programing.

Output switch delay	50 µs
Off time during self test	< 200 µs
Status indicator	LED
Integral on-board inputs	
Number	32
Potential isolation	Yes
Signal level at “0”	-3 ... +5 VDC
Signal level at “1”	+15 ... +30 VDC
Input current	Average 6 mA
Input delay	1 ms
Status indicator	LED
Mechanical data	
Dimensions (H x W x D)	223 x 277 x 155 mm
Weight	3840 g
Environmental data	
Protection type (EN 60529, 10/91)	IP 20
Protection class (DIN VDE 0106, Part 1/A1, 04/90)	1
Mounting position	Vertical
Ambient temperature (DIN IEC 68-2-14, 06/87)	0 ... +60 °C
Storage temp. (EN 60068-2-1/2, 03/93)	-25 ... +70 °C
Climatic suitability (IEC 68-2-30, 09/86)	Max. 95% r.h.
Condensation	Not permitted
Vibration (EN 60068-2-6, 04/95)	Frequency range: 10 ... 100 Hz Amplitude: 0.1 mm, max. 5g
Vibration resistance (DIN IEC 68-2-29)	30g, 11 ms/10g, 16 ms
EMC	EN 50082-2, 03/95 EN 55011 A, 08/96

Order reference	
System	SafetyBUS p
Order number	301 310

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