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Compact Safety System
PSS 3032



Compact safety system suitable for safety-related functions because of its 3-channel diverse structure.

Features

- Universal design to meet all requirements
- Failsafe applications conforming to EN 954-1, 11/94 up to Cat. 4
- 20 digital inputs
- 10 single-pole outputs, 2 of which can be configured as test pulses
- 2 dual-pole outputs
- Suitable for both safety-related and standard functions
- Reduced space requirement
- High processing speed for cycles in which time is critical

Approvals

	PSS 3032
BG	●
TÜV PRODUCT SERVICE	●
UL LISTED	●

Technical Details	PSS 3032
Function	Compact programmable safety system
Application Range	Failsafe applications conforming to EN 954-1, 11/94
Electrical Data	
Supply Voltage	24 VDC
Tolerance Range	20 ... 30 VDC including residual ripple
Power Consumption	16 W
Total Load Capacity on the Outputs	9 A
Connection Type	Screw-type connector
Serial Interfaces, galvanically isolated	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 64 KByte Flash-EPROM memory ST section: Integral 64 KByte Flash-EPROM memory
Single-pole Outputs	
Number	10
Output Current at “1”	0.5 A
Permitted Range	0 ... 0.6 A
Short Circuit Protection	Electronic
Limitation of Inductive Switch Off	ca. U_B-42 VDC
Simultaneity	100 % up to max. 9 A (single and dual-pole outputs)
Residual Current at “0”-Signal	0 mA
Signal Level at “0”	0 VDC
Signal Level at “1”	U_B-1 VDC at 1 A
Output Switch Delay	< 200 µs
Off Time during Self Test	400 ... 500 µs
Status Indicator	LED
Dual-pole Outputs	
Number	2
Output Current at “1”	2 A
Permitted Range	0 ... 2.5 A
Short Circuit Protection	Electronic
Limitation of Inductive Switch Off	$-U_B$
Simultaneity	100 % up to max. 9 A (single and dual-pole outputs)
Residual Current at “0”-Signal	During test pulses: 5 mA for max. 500 µs
Signal Level at “0”	12 VDC at both output terminals
Signal Level at “1”	U_B-2 VDC at 2.5 A
Output Switch Delay	50 µs
Off Time during Self Test	< 200 µs
Status Indicator	LED

Pilz GmbH & Co., Felix-Wankel-Straße 2, 73760 Ostfildern, Deutschland
Telefon +49 (7 11) 34 09-0, Telefax +49 (7 11) 34 09-1 33, E-Mail: pilz.gmbh@pilz.de

Compact Safety System
PSS 3032

Description

The PSS 3032 is a compact safety system within a single housing. Connections are made via screw terminals. The system can be connected to other controller types via I/Os or via a serial interface. 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 3032 has an integral Flash-EPROM program memory with 64 KByte for both the standard and fail-safe 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 programming.

Inputs	**PSS 3032**
Number	20
Galvanic Isolation	Yes (optocoupler)
Potential Isolation	Yes
Signal Level at “0”	-3 ... +5 VDC
Signal Level at “1”	+15 ... +30 VDC
Input Current	Typ. 6 mA
Input Delay	1 ms
Status Indicator	LED
Mechanical Data	
Size (H x W x D)	246.4 x 74 x 161 mm
Weight	1750 g
Environmental Data	
Protection Type	IP 20
Ambient Temperature	0 ... +60 °C
Condensation	Not permitted

Order References	
System	PSS 3032
Order Number	301 350

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