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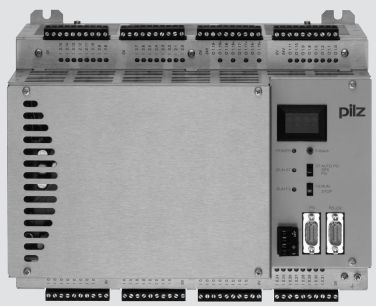
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Compact Safety Systems

PSS 3056, PSS 3056-1, PSS 3056-2



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 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 3056	PSS 3056-1 PSS 3056-2
BG	●	●
TÜV PRODUCT SERVICE	●	
GASTEC	●	
UL LISTED	●	●
AIBV	●	

Technical Details	PSS 3056	PSS 3056-1	PSS 3056-2
Function	Compact programmable safety system		
Application Range	Failsafe applications conforming to EN 954-1, 11/94 and DIN V 19 250, 01/89, DIN VDE 0116		
Electrical Data			
Supply Voltage	24 VDC	24 VDC	24 VDC
Tolerance Range	20 ... 30 VDC including residual ripple		
Galvanic Isolation	Yes (optocoupler)		
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: 8 KByte		
Program memory	FS section: Integral 64 KByte Flash-EPROM memory ST section: Integral 64 KByte Flash-EPROM memory		
Single-pole Outputs			
Number	16	16	8
Potential Isolation	In blocks of 8		
Output Current at “1”	2 A	2 A	2 A
Total Load Capacity per Block of 8 Outputs at +60 °C	10 A	10 A	10 A
Permitted Current	0 ... 2.5 A	0 ... 2.5 A	0 ... 2.5 A
Short Circuit Protection	Electronic	Electronic	Electronic
Limitation of Inductive Switch Off	ca. U_B-42 VDC		
Simultaneity	100 % up to a max. 10 A per block of 8		
Residual Current at “0”-Signal	0 mA	0 mA	0 mA
Signal Level at “0”	0 VDC	0 VDC	0 VDC
Signal Level at “1”	U_B-1 VDC at 2.5 A		
Output Switch Delay	< 50 µs	< 50 µs	< 50 µs
Off Time during Self Test	400 ... 500 µs	400 ... 500 µs	400 ... 500 µs
Status Indicator	LED	LED	LED
Dual-pole Outputs			
Number	8	4	4
Potential Isolation	In blocks of 8		
Output Current at “1”	2 A	2 A	2 A
Total Load Capacity at +60 °C	10 A	10 A	10 A
Permitted Current	0 ... 2.5 A	0 ... 2.5 A	0 ... 2.5 A
Short Circuit Protection	Electronic	Electronic	Electronic
Limitation of Inductive Switch Off	$-U_B$	$-U_B$	$-U_B$
Simultaneity	100 % up to max. 10 A		
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	50 µs	50 µs
Off Time during Self Test	< 200 µs	< 200 µs	< 200 µs
Status Indicator	LED	LED	LED

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Compact Safety Systems

PSS 3056, PSS 3056-1, PSS 3056-2

Description

The PSS 3056 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 3056 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 3056**	**PSS 3056-1**	**PSS 3056-2**
Number	32	40	48
Potential Isolation	Yes	Yes	Yes
Signal Level at “0”	-3 ... +5 VDC		
Signal Level at “1”	+15 ... +30 VDC		
Input Current	Typ. 6 mA	Typ. 6 mA	Typ. 6 mA
Input Delay	1 ms	1 ms	1 ms
Status Indicator	LED	LED	LED
Mechanical Data			
Size (H x W x D)	223 x 277 x 155 mm		
Weight	3740 g	3740 g	3740 g
Environmental Data			
Protection Type	IP 20	IP 20	IP 20
Ambient Temperature	0 ... +60 °C	0 ... +60 °C	0 ... +60 °C
Condensation	Not permitted	not permitted	not permitted

Order References			
System	PSS 3056	PSS 3056-1	PSS 3056-2
Order Number	301 300	301 302	301 303

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