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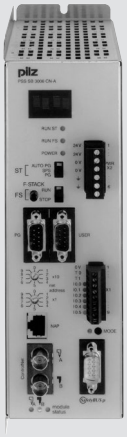
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Find the *Pilz PSS SB 3006 CN-A* at our website: *Click HERE*

Compact Safety System with SafetyBUS p® Connection

PSS SB 3006 CN-A



Compact safety system with SafetyBUS p and ControlNet interface, suitable for safety-related functions because of its 3-channel structure.

Features

- Failsafe applications conforming to EN 954-1, 03/97 up to Category 4 and DIN V 19 250, 05/94 up to AK 6
- SafetyBUS p interface
- ControlNet interface
  - Redundant bus
  - Selectable bus address
  - Diagnostic display
- 6 digital inputs (Category 2; category 4 only when used in conjunction with test pulses)
- 2 dedicated test pulses
- Suitable for both safety-related and standard functions
- Reduced space requirement
- High processing speed for cycles in which time is critical
- A fibre-optic coupler may be connected to SafetyBUS p

Approvals

	PSS SB 3006 CN-A
	●
	●
	Pending

Technical details	PSS SB 3006 CN-A
Function	Compact programmable safety system for decentralised applications
Application range	Failsafe applications conforming to EN 954-1, 03/97 / DIN V 19 250, 05/94, DIN VDE 0116, 09/97
Electrical data	
Supply voltage	24 VDC
Tolerance range	20 ... 30 VDC including residual ripple of max. ±1.2 V
Current consumption	625 mA plus load currents taken from the test pulse outputs and load currents for fibre-optic couplers (25 mA per fibre-optic coupler)
Connection type	Screw connector
Interfaces	Galvanically isolated: RS 232/RS 485 for user RS 232 (with minimum configuration)/RS 485 for programming device SafetyBUS p ControlNet Not galvanically isolated: Network Access Port
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	
Application range	Failsafe applications conforming to EN 954-1, 03/97 / DIN V 19 250, 05/94, DIN VDE 0116, 09/97
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	Male 9-pin D-Sub connector
ControlNet	
Application range	Non-safety-related applications
Unit type	Adapter
Status display	LED
Transmission rate	5 MBit/s
Station address	Selectable using a rotary switch Valid in range from 0 ... 99 dec
Data length Scheduled messages	max. 256 words Input data: 128 words Output data: 128 words
Data length Unscheduled messages	64 words Input data: 32 words Output data: 32 words
Communication structure	Using a standard function block

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Compact Safety System with SafetyBUS p® Connection
PSS SB 3006 CN-A

Description

The PSS SB 3006 CN-A is a compact safety system within a single housing. It can be connected to ControlNet as an Adapter Class Product. The connection to the decentralised periphery devices is made via SafetyBUS p. An additional feature to the decentralised I/Os is the ability to connect a safety-related network of several PSS systems via SafetyBUS p. The integral on-board inputs can be used for local E-STOP monitoring or for triggering a group start. They are suitable for connecting single or dual-channel safety-related input devices, with or without test pulses.
The dedicated test pulses are designed for testing input devices with a load of 0.5 A.
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 fail-safe and standard sections communicate without feedback; i.e. potential program errors in the standard section will not affect the failsafe section. The failsafe section of the CPU operates through three diverse channels, ensuring a high level of safety. All inputs are processed separately by each channel. Each channel compares the result with the two adjacent channels. Input signals are only valid if all three channels reach the same result.
Communication with supervisory systems, e.g. for diagnostic functions or for visualisation, is via the ControlNet interface; if necessary this can be done via the user interface.
An RS 232/RS485 interface is available for connecting to the programming device.

ControlNet	**PSS SB 3006 CN-A**
Connection	Bus interface: BNC-plug connector for channel A/B Network Access Port: 8-pin Western socket (RJ45)
Dedicated test pulse outputs	
Number	2
Output current at “1”	Max. 0.5 A
Integral on-board inputs	
Number	6
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	1800 g
Environmental data	
Protection type (EN 60529, 10/91)	IP20
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
Shock (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
Description	PSS SB 3006 CN-A
Order number	301 470

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