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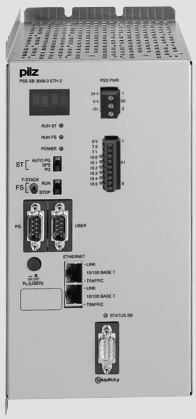
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Compact safety system with SafetyBUS p® connection

PSS SB 3006-3 ETH-2



3rd generation compact safety system with SafetyBUS p and Ethernet interfaces. Suitable for safety-related functions because of its multi-channel diverse structure.

Features

- For safety-related functions and standard functions
- Real-time clock integrated within the standard section
- Ethernet interface
- PG functions available via Ethernet (TCP/IP)
- SafetyBUS p interface
- One SafetyBUS p network can be operated with
  - max. 64 bus subscribers
  - max. 32 I/O-Groups
  - max. 3500 m
- A fibre-optic coupler may be connected to SafetyBUS p

Approvals

	PSS SB 3006-3 ETH-2
BG-PRÜFZERT	●
TÜV PRODUCT SERVICE	●
c UL us LISTED	●

Technical details	PSS SB 3006-3 ETH-2
Function	Compact programmable safety system for decentralised applications
Application range	Failsafe applications conforming to EN 954-1, 03/97 up to Cat. 4, DIN V 19 250, 05/94 up to AK 6, DIN VDE 0116, 09/97, EN IEC 61508, 12/98
Electrical data	
Supply voltage	“PSS PWR”: 24 VDC, PS-2
Tolerance	20 ... 30 VDC including residual ripple of max. ± 1.2 V
Current consumption	“PSS PWR”: 600 mA plus load currents taken from the test pulse outputs and load currents for SafetyBUS p fibre-optic couplers (25 mA per fibre-optic coupler)
Power dissipation	14.5 W
Connection type	Screw connectors or spring-loaded terminals (asseccories)
Interfaces	Galvanically isolated: Combined RS 232 (with minimum configuration)/RS 485 interface for programming device, Combined RS 232/RS 485 (termination is selectable) as user interface, SafetyBUS p, Ethernet ETH-2
Data memory	Failsafe section: 64 KByte (non-retentive) Standard section: 170 KByte (non-volatile)
Program memory	Failsafe section: Integral 512 KByte Flash-EPROM memory Standard 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, fibre-optic cable via fibre-optic coupler
Connection	Male 9-pin D-Sub connector
Ethernet ETH-2	
Application range	Non-safety-related applications
Connection	2 x RJ45 socket with integrated switch
Status indicator	2 LEDs per Ethernet connection
Transmission rate	10 MBit/s or 100 MBit/s (autosensing)
Ethernet address	Pre-configured when supplied

Pilz GmbH & Co. KG, Sichere Automation, Felix-Wankel-Straße 2, 73760 Ostfildern, Germany
Telephone +49 711 3409-0, Telefax +49 711 3409-133, E-Mail: pilz.gmbh@pilz.de

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Compact safety system with SafetyBUS p® connection
PSS SB 3006-3 ETH-2

Description

The PSS SB 3006-3 ETH-2 belongs to the PSS SB 3006-3 series of programmable safety systems. It is a compact safety system, enclosed in a single housing.

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 max. 0.5 A.

PSS-range programmable safety systems are divided into a failsafe and a standard section. Only the failsafe section may process safety-related functions. The failsafe 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 is designed to be multi-channel and diverse, ensuring a high level of safety. All inputs are processed separately by each channel. Each channel compares the result with that of the two other channels. Input signals are only valid if all three channels reach the same result.

Communication with master systems, e.g. for diagnostic functions or graphics, can be made via the Ethernet interface; if necessary, the user interface may be used.

Dedicated test pulse outputs	**PSS SB 3006-3 ETH-2**
Number	2
Supply	From “PSS PWR”
Output current at “1”	Max. 0.5 A
Integral on-board inputs	
Number	6 x Type 1
Signal level at “0”	-3 ... +5 VDC
Signal level at “1”	+15 ... +30 VDC
Input current	Typ. 6 mA
Input delay	< 1 ms
Pulse suppression	≤ 300 µs
Status indicator	LED
Mechanical data	
Dimensions (H x W x D)	246 x 123 x 161 mm
Weight	2200 g
Environmental data	
Protection type (EN 60529, 02/00)	IP20
Mounting position	Vertical
Ambient temperature (EN 60068-2-14, 11/99)	0 ... +60 °C
Storage temperature (EN 60068-2-1/-2, 07/94)	-25 ... +70 °C
Climatic suitability (EN 60068-2-78, 10/01)	93 % r.h. at 40 °C
Condensation	Not permitted
Vibration (EN 60068-2-6, 04/95)	Frequency range: 10 ... 57 Hz Amplitude: 0.075 mm Frequency range: 57 ... 150 Hz Acceleration: 1g
Shock EN 60068-2-27, 03/93 EN 60068-2-29, 04/93	 15g, 11 ms 10g, 16 ms
EMC	EN 61000-6-2, 10/01 EN 61000-6-4, 10/01

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Communication via Ethernet is possible via Modbus TCP, UDP/IP and TCP/IP (other protocols on request). An Ethernet Configurator has been added to the PSS WIN-PRO system software. The configurator is used to configure Ethernet connections for communication. The data areas (e.g. data blocks) for data exchange are also established during configuration. The communications setup and data exchange occur automatically through the PSS operating system. No standard function blocks (communication drivers) are required for data transfer, i.e. configuration, communication setup and data exchange may be independent of the user program.

A combined RS 232/RS 485 interface (RS 232 with minimum configuration RxD, TxD, GND) is provided for connection to the programming device (PG). PG functions are also available via Ethernet (TCP/IP).

The PSS WIN-PRO system software supports the PSS from Version 1.3.0.

Order reference	**PSS SB 3006-3 ETH-2**

Description	**Order no.**
PSS SB 3006-3 ETH-2 (without terminals)	301 780

Order reference for accessories

Description	**Order no.**
PSS ZKL 3006-3 (Set of plug-in screw connectors)	300 914
PSS ZKF 3006-3 (Set of spring-loaded terminals)	300 916
PSS ZCM Cable Mounting Plate (Mounting plate for cable strain relief)	300 920
PSS ZCC Cable Clip (Cable feed retainer)	300 922

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