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Compact safety system with SafetyBUS p® connection
PSS SB 3006-3 DN-S

PSS SB 3006-3 DN-S
not shown

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

Features

- SafetyBUS p interface
- DeviceNet interface
  - Selectable transmission rate
  - Selectable bus address
  - Diagnostic display
- For safety-related functions and standard functions
- Failsafe applications conforming to EN 954-1, 03/97 up to cat. 4 and DIN V 19 250, 05/94 to AK 6 and EN IEC 61508, 12/98
- 6 digital inputs up to cat. 2 (in connection with pulse outputs up to cat. 4)
- 2 dedicated test pulse outputs
- Reduced space requirement
- High processing speed for time-critical procedures
- A fibre-optic coupler may be connected to SafetyBUS p

Technical Details	PSS SB 3006-3 DN-S
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, EN 61508, 12/98
Electrical data	
Supply voltage	“PSS PWR”: 24 VDC
Tolerance	20 ... 30 VDC including residual ripple of max. ± 1.2 V
Current consumption	“PSS PWR”: 400 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)
Connection type	Screw connector
Interfaces	Galvanically isolated: Combined RS 232 (with minimum configuration)/RS 485 interface for programming device, Combined RS 232/RS 485 as user interface, SafetyBUS p and DeviceNet
Data memory	Failsafe section: 64 KByte (non-retentive) Standard section: 170 KByte
Program memory	Failsafe section: Integral 512 KByte Flash memory Standard section: Integral 512 KByte Flash memory
SafetyBUS p	
Application range	Failsafe applications conforming to EN 954-1, 03/97 or 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

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Compact safety system with SafetyBUS p® connection
PSS SB 3006-3 DN-S

Description

The PSS SB 3006-3 DN-S belongs to the programmable safety systems from the PSS SB 3006-3 series. 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.
Safety systems in the PSS-range are divided into a failsafe section 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 other channel. Input signals are only valid if all channels reach the same result.
Communication with master systems, e.g. for diagnostic functions or graphics, can be made via the DeviceNet interface; if necessary, the user interface may be used.

DeviceNet	**PSS SB 3006-3 DN-S**
Application range	Non-safety-related applications
Device type	Slave
Status display	LED
Transmission rates	125, 250, 500 kBit/s set via rotary switches
Station address	Set via rotary switches in the range 0 ... 63_D
Data length	0 ... 32 words, selectable
Connection	5-pin. Combicon plug-in connector to DeviceNet specifications
Dedicated test pulse outputs	
Number	2
Supply	From “PSS PWR”
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
Pulse suppression	≤ 300 µs
Status display	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)	IP 20
Mounting position	Vertical
Ambient temperature (EN 60068-2-14, 02/00)	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)	15g, 11 ms
EMC	EN 61000-6-2, 08/02 EN 61000-6-4, 08/02 EN 55011 Class A, 08/03

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Standard function blocks from the Pilz software package “ST-SB-DN-S” are required in order to transfer data and set the parameters for the PSS as Slave on DeviceNet. These are communication drivers.

A combined RS 232/RS 485 interface (RS 232 with minimum configuration RxD, TxD, GND) is provided for connection to the programming device (PG).

The PSS WIN-PRO system software supports the PSS from Version 1.1.2.

Order reference	**PSS SB 3006-3 DN-S**

Description	**Order no.**
PSS SB 3006-3 DN-S (without terminals)	301 750

Order reference for accessories	

Description	**Order no.**
PSS ZKL 3006-3 (set of plug-in screw connectors)	300 914
PSS ZKL 3006-3 (set of spring-loaded terminals)	300 916
PSS ZCM Cable Mounting Plate (bracket for strain relief of the cable)	300 920
PSS ZCC Cable Clip (bracket for cable feed)	300 922
ST-SB-DN-S	301 262...[1)]

[1)] **When ordering:** please state the type of licence you require after the order number (**..B** for basic licence, **..K** for copy licence, **..G** for general licence), e.g. 301 183B.

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