ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

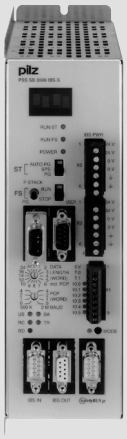
Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Pilz PSS 3032* at our website: *Click HERE*

Compact Safety System with SafetyBUS p® Connection

PSS SB 3006 IBS-S



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

Features

- SafetyBUS p interface
- Interbus interface (incl. PCP)
- Failsafe applications conforming to EN 954-1, 03/97 up to Category 4 and DIN V 19 250, 05/94 up to AK 6
- 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
- Electro-optical converters can be connected to the Interbus interface
- A fibre-optic coupler may be connected to SafetyBUS p

Approvals

	PSS SB 3006 IBS-S
	●
	●
	●

Technical details	PSS SB 3006 IBS-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
Electrical data	
Supply voltage	“PSS PWR”: 24 VDC “IBS PWR”: 24 VDC
Tolerance range	20 ... 30 VDC including residual ripple of max. ±1.2 V
Current consumption	“PSS PWR”: 550 mA plus load currents taken from the test pulse outputs and load currents for fibre-optic couplers (25 mA per fibre-optic coupler) “IBS PWR”: 150 mA
Galvanic isolation	“PSS PWR”: 2 kV to Interbus-S Slave power supply “IBS PWR”: 2 kV to PSS power supply
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 Interbus
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
Interbus	
Application range	Non-safety-related applications
Unit type	Slave with PCP channel
Status indicator	LED
Data width	0 ... 32 words, adjustable
PCP channel	0, 1, 2 or 4 words, adjustable
Transmission rate	500 kBit/s or 2 MBit/s, adjustable
Connection	IBS IN: Male 9-pin D-Sub connector IBS OUT: Female 9-pin D-Sub connector
Dedicated test pulses	
Number	2
Supply	From “PSS PWR”
Output current at “1”	Max. 0.5 A

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

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Compact Safety System with SafetyBUS p® Connection
PSS SB 3006 IBS-S

Description

The PSS SB 3006 IBS-S is a compact safety system within 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 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 (3oo3).
Communication with supervisory systems, e.g. for diagnostic functions or for visualisation, is via the Interbus interface; if necessary this can be done via the PCP parameter channel or the user interface.
An RS 232/RS485 interface is available for connecting to the programming device.
A separate supply may be used for the controller/test pulse outputs ("PSS PWR") and Interbus-Slave ("IBS PWR").

Integral on-board inputs	**PSS SB 3006 IBS-S**
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
Pulse suppression	≤ 300 µs (Requirement: in the PSS Configurator under "Max. delay of digital inputs" or "DI test time" ≥ 3 ms are configured.)
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 IBS-S
Order number	301 450

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

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP