Overview

The SFB is a safety field box for PROFINET/PROFIsafe systems which allows simple plug-and-play installation of up to eight safety devices.

Thanks to its universal device interface with an M12, 8-pole connector, it can be used to connect a wide variety of safety devices: electronic and electro-mechanical safety interlocks, switches, sensors, light curtains and operation panels. Field box device connections can also be configured to link different devices, thus providing maximum flexibility in the conceptual design of safety solutions.

The safety signals from connected safety devices are forwarded to a safety controller. Field box device connections can also be configured to link different devices, thus providing maximum flexibility in the conceptual design of safety solutions.

All device connections also feature a self-resetting fuse element to protect lines. After eliminating an overcurrent in a connection, the fuse element resets itself after a brief cool-down period.

Features

- Device ports: 8 connection ports; M12, 8-pole
- LED status indicators at each connector for power and input
- Labels to quickly identify connected components
- Communication ports: M12, 4 pole connectors for PROFINET/PROFIsafe connection
- LED status indicators for the safety field box
- Power supply via M12 power plug connection; 10 A
- Cost-effective machine wiring
- Smooth and fail-safe installation
- Connect up to 8 safety devices per field box - mix different types of switches - up to 4 control panels (with E-Stop)
- Series chain up to 10 safety field boxes

Available Literature

Wiring example

Ordering Details

SFB-PN-IRT-8M12-IOP

Cables

Main Power Cable (M12)
103013430 (5.0m, 4-pole, T-code)
103013431 (10.0m, 4-pole, T-code)

SFB to SFB Power Cable (M12)
103025138 (0.5 m, 4-pole, T-code)
103025136 (1.5 m, 4-pole, T-code)
103013432 (3.0 m, 4-pole, T-code)
103013433 (5.0 m, 4-pole, T-code)
103013434 (7.5 m, 4-pole, T-code)

Ethernet cables
103013435 (5.0 m, RJ45 to M12)
103013436 (7.5 m, RJ45 to M12)
103013437 (10.0 m, RJ45 to M12)
103013438 (3.5 m, 8-pole, A-code)
103013439 (5.0 m, 8-pole, A-code)
103013440 (7.5 m, 8-pole, A-code)

Device to SFB Cable (M12)
101217786 (0.5 m, 8-pole, A-code)
101217787 (1.0 m, 8-pole, A-code)
101217788 (1.5 m, 8-pole, A-code)
101217789 (2.5 m, 8-pole, A-code)
103013428 (3.5 m, 8-pole, A-code)
103013429 (7.5 m, 8-pole, A-code)

4 pole to 8 pole connectors
103032864 (2.5 m)
103032865 (5.0 m)

Y adaptor (for SLC)
103032867 (for SLC440)
103032866 (for SLC440COM)

Accessories

ACC-PFB-SFB-LAB-SN-20PCS
Labels (yellow)

ACC-PFB-SFB-M12-PCAP-10PCS
Protective caps for unused ports

ACC-PFB-SFB-LLL-4PCS
Adhesive seal

Special Versions for SFB

Control panels:
(prewired with M12 connector)
BDF200-FB-NH-LT-LT-2875
BDF200-FB-NHK-WS20-LTBU-LTBU-G24

Bold part numbers are regularly stocked

Contact

Schmersal USA
15 Skyline Drive
Hawthorne, NY 10532
Tel: 914-347-4775
Fax: 914-347-1567
E-mail: salesusa@schmersal.com

Schmersal Canada
29 Centennial Road, Unit 1
Orangeville ON L9W 1R1
Tel: 519-307-7540
Fax: 519-307-7543
E-Mail: salescanada@schmersal.com