

PRA-SFPSX Fiber transceiver, multimode

www.boschsecurity.com



BOSCH

Invented for life



- ▶ Industry standard small form-factor pluggable (SFP)
- ▶ Immovable lock design
- ▶ Hot pluggable
- ▶ Duplex LC connector
- ▶ Full duplex speed support

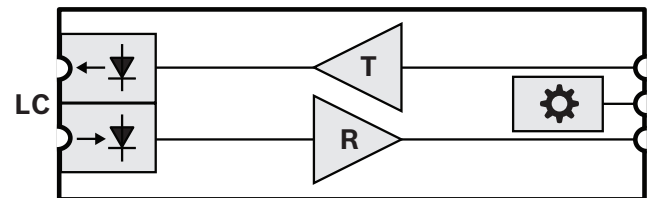
The PRA-SFPSX is a compact fiber transceiver for multi-mode fibers, covering distances up to 550 m. This fiber transceiver is an OEM transceiver, made for Bosch by Advantech for use in Bosch Public Address and Voice Alarm systems. It locks into the SFP socket of the PRAESENSA multifunction power supply and Ethernet switch. It is compliant with Fast Ethernet and IEEE 802.3z Gigabit Ethernet standards for maximum performance, reliability and flexibility. The PRA-SFPSX is certified for EN 54-16 in combination with PRAESENSA and PAVIRO systems.

Functions

Features

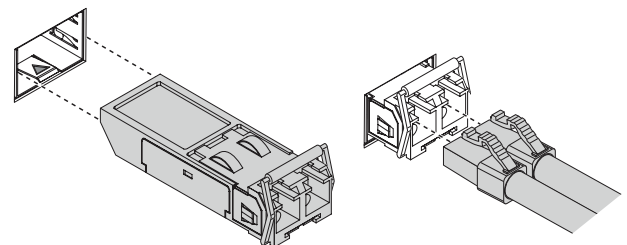
- The PRA-SFPSX features a duplex LC connector; one connection for transmit and the other for receive.
- Fits and locks into the SFP socket of the PRA-MPSx and PRA-ES8P2S.
- SFP is the popular industry format jointly developed and supported by many network component vendors, providing a connection to different types of optical fiber.
- Supports multi-mode fiber for distances up to 550 m.
- Wide temperature range for maximum reliability.
- Certified for EN 54-16 in combination with PRAESENSA and PAVIRO systems.

Connection and functional diagram



LC	Dual lockable transmitter and receiver connector	T	Transmitter
R	Receiver	⚙️	Controller

Physical connections



Architects & Engineers specification - PRA-SFPSX

The SX fiber transceiver shall be a wide temperature Small Form-factor Pluggable (SFP) for use with multi-mode fiber and IR light with a wavelength of 850 nm, to cover glass fiber link lengths of up to 550 m. It shall be certified for EN 54-16 in combination with Bosch PRAESENSA and PAVIRO systems for public address and voice alarm purposes. The transceiver shall be marked for UL and CE and be compliant with the RoHS directive. Warranty shall be three years minimum. The LX-transceiver shall be a Bosch PRA-SFPSX.

Certifications and approvals**Emergency standard certifications**

Europe	EN 54-16
International	ISO 7240-16

Environmental directive compliancy

Safety	Laser Class I IEC 60825-1
--------	---------------------------

Conformity declarations

Europe	CE/CPR
USA/Canada	FCC/c-UL
Environment	RoHS

Parts included

Quantity	Component
1	SFP fiber transceiver

Technical specifications**Electrical**

Interface	
Supply voltage	3.3 V
Power consumption	1 W
Speed	IEEE 802.3z 1000BASE-SX

Interface	
Transmitter power	-4 to -9.5 dBm
Receiver sensitivity	< -18 dBm
Connection	Hot swappable, Locking

Optical

Interface	
Connector type	Dual LC
Wave length	850 nm
Fiber length	
50 µm core	< 550 m (1.804 ft)
62.5 µm core	< 220 m (722 ft)
Optical fiber	Multi-mode
Core size	50 µm / 62.5 µm

Environmental

Climatic conditions	
Temperature	
Operating	-40 to +85°C (-40 to +185°F)
Storage and transport	-40 to +85°C (-40 to +185°F)
Humidity (non condensing)	5% to 95%

Mechanical

Enclosure	
Dimensions (WxHxD)	8.5 x 13.4 x 56.5 mm (0.33 x 0.53 x 2.2 in)
Weight	75 g (0.17 lbs)

Ordering information

PRA-SFPSX Fiber transceiver, multimode
1000BASE-SX SFP module for multi-mode fiber (550 m)
Order number **PRA-SFPSX**

Represented by:**Americas:**

Bosch Security Systems, Inc.
12000 Portland Avenue South
Burnsville MN 55337, USA
Phone: +1-800-392-3497
Fax: +1-800-955-6831
audiosupport@us.bosch.com
www.boschsecurity.com

Europe, Middle East, Africa:

Bosch Security Systems B.V.
P.O. Box 80002
5617 BA Eindhoven, The Netherlands
Phone: +31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:

Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2699
apr.securitysystems@bosch.com
www.boschsecurity.asia

China:

Bosch (Shanghai) Security Systems Ltd.
201 Building, No. 333 Fuquan Road
North IBP
Changning District, Shanghai
200335 China
Phone +86 21 22181111
Fax: +86 21 22182398
www.boschsecurity.com.cn

America Latina:

Robert Bosch Ltda Security Systems Division
Via Anhanguera, Km 98
CEP 13065-900
Campinas, Sao Paulo, Brazil
Phone: +55 19 2103 2860
Fax: +55 19 2103 2862
latam.boschsecurity@bosch.com
www.boschsecurity.com