

# PRA-SFPLX Fiber transceiver, single mode

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

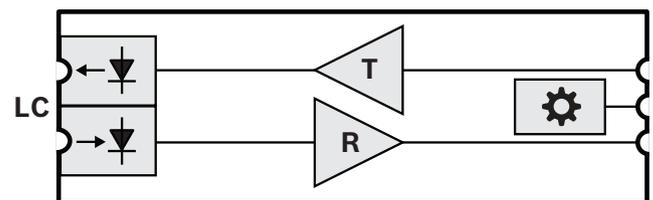
The PRA-SFPLX is a compact fiber transceiver for single mode fibers, covering distances up to 10 km. This fiber transceiver is an OEM transceiver, made for Bosch by Advantech for use in Bosch Public Address and Voice Alarm systems. It locks into the SFP socket of the PRAESENSA multifunction power supply and Ethernet switch. It is compliant with Fast Ethernet and IEEE 802.3z Gigabit Ethernet standards for maximum performance, reliability and flexibility. The PRA-SFPLX is certified for EN 54-16 in combination with PRAESENSA systems.

## Functions

### Features

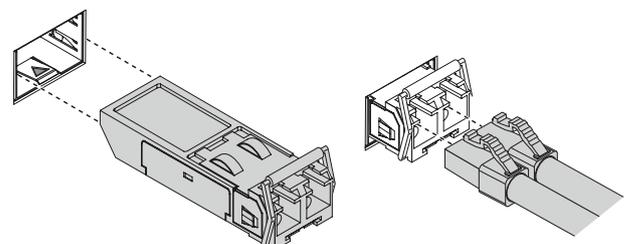
- Features a duplex LC connector; one connection for transmit and the other for receive.
- Fits and locks into the SFP socket of the PRA-MPSx and PRA-ES8P2S.
- SFP is the popular industry format jointly developed and supported by many network component vendors, providing a connection to different types of optical fiber.
- The PRA-SFPLX supports single-mode fiber for distances up to 10 km.
- Wide temperature range for maximum reliability.
- Certified for EN 54-16 in combination with PRAESENSA systems.

### Connection and functional diagram



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

### Physical connections



**Architects' and engineers' specifications**

The LX fiber transceiver shall be a wide temperature Small Form-factor Pluggable (SFP) for use with single-mode fiber and IR light with a wavelength of 1310 nm, to cover glass fiber link lengths of up to 10 km. It shall be certified for EN 54-16 in combination with Bosch PRAESENSA 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-SFPLX.

**Certifications and approvals****Emergency standard certifications**

Europe	EN 54-16
International	ISO 7240-16

**Regulatory areas**

Safety	Laser Class I IEC 60825-1
Environment	EN 50581
Maritime applications	DNV-GL Type Approval

**Conformity declarations**

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

**Parts included**

Quantity	Component
1	SFP fiber transceiver

**Technical specifications****Electrical****Interface**

Supply voltage	3.3 V
Power consumption	0.7 W
Speed	IEEE 802.3z 1000BASE-LX

**Interface**

Transmitter power	-3 to -9.5 dBm
Receiver sensitivity	< -20 dBm
Connection	Hot swappable, Locking

**Optical****Interface**

Connector type	Dual LC
Wave length	1310 nm
Fiber length	< 10 km (32,821 ft)
Optical fiber	Single-mode
Core size	ITU-T G.652 SMF

**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-SFPLX Fiber transceiver, single mode**

1000BASE-LX SFP module for single mode fiber (10 km).

Order number **PRA-SFPLX**

**Represented by:**

**Europe, Middle East, Africa:**  
Bosch Security Systems B.V.  
P.O. Box 80002  
5600 JB Eindhoven, The Netherlands  
Phone: + 31 40 2577 284  
emea.securitysystems@bosch.com  
emea.boschsecurity.com

**Germany:**  
Bosch Sicherheitssysteme GmbH  
Robert-Bosch-Ring 5  
85630 Grasbrunn  
Germany  
www.boschsecurity.com

**North America:**  
Bosch Security Systems, LLC  
130 Perinton Parkway  
Fairport, New York, 14450, USA  
Phone: +1 800 289 0096  
Fax: +1 585 223 9180  
onlinehelp@us.bosch.com  
www.boschsecurity.us

**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