

PRA-SFPLX Fiber transceiver, single mode PRAESENSA



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

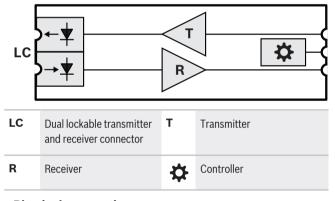
The PRA-SFPLX is a compact fiber transceiver for single mode fibers, covering distances up to 10 km. This fiber transceiver is an OEM transceiver, made for Bosch by Advantech for use in Bosch Public Address and Voice Alarm systems. It locks into the SFP socket of the PRAESENSA multifunction power supply 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

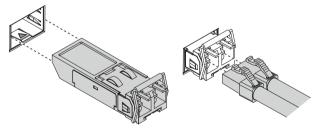
Features

- 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



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.

Regulatory information

Emergency standard certifications

Europe	EN 54-16 (0560-CPR-182190000)
International	ISO 7240-16
Maritime applications	DNV GL Type Approval

Emergency standard compliance

Europe	EN 50849
UK	BS 5839-8

Regulatory areas

Safety	Laser Class I IEC 60825-1
Immunity	EN 55035
Emissions	EN 55032 EN 61000-3-2 EN 61000-3-3
Environment	EN/IEC 63000

Parts included

Quantity	Component	
1	SFP fiber transceiver	

Technical specifications

Quick overview

Operating voltage (VDC)	3.30 VDC
Power consumption (W)	0.70 W maximum
Transmitter power	-9,5 dBm minimum
Receiver sensitivity	-20dBm maximum
Connector type	Dual LC

Wavelength (nm) Optical fiber	1,310 nm
Optical fiber	0. 1
	Single mode
Core size	8,6 µm - 9,5 µm
Cable length (m)	10,000 m maximum
Additional options	Hot pluggable; Lockable
Ethernet type	1000BASE-LX
Compability	MSA standard
Wi-Fi standard	IEEE 802.3z
Operating temperature (°C)	-40 °C – 85 °C
Operating relative humidity, non-condensing (%)	5% - 95%
Storage temperature (°C)	-40 °C – 85 °C
Dimensions (H x W x D) (mm)	13.40 mm x 8.50 mm x 56.50 mm
Weight (g)	75 g
Electrical	
Interface	
Supply voltage	3.3 V
Power consumption	0.7 W
Speed	IEEE 802.3z 1000BASE-LX
Transmitter power	-39.5 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 Storage and transport	-40−85 °C (-40−185 °F) -40−85 °C (-40−185 °F)		
Humidity (non condensing)	5-95%		
Mechanical			
Enclosure			
Dimensions (HxWxD)	13.4 x 8.5 x 56.5 mm (0.53 x 0.33 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 | F.01U.352.103

Represented by:

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