# PRA-SFPSX Fiber transceiver, multimode

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

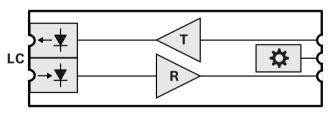
The PRA-SFPSX is a compact fiber transceiver for multi-mode fibers, covering distances up to 550 m. This fiber transceiver is an OEM transceiver, made for Bosch by Advantech for use in Bosch Public Address and Voice Alarm systems. It locks into the SFP socket of the PRAESENSA multifunction power supply 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 systems.

# **Functions**

#### **Features**

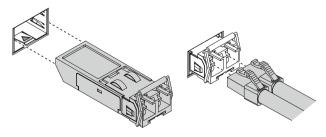
- Features a duplex LC connector; one connection for transmit and the other for receive.
- Fits and locks into the SFP socket of the PRA-MPSx and PRA-ES8P2S.
- SFP is the popular industry format jointly developed and supported by many network component vendors, providing a connection to different types of optical fiber.
- The PRA-SFPSX 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 systems.

## Connection and functional diagram



LC	Dual lockable transmitter and receiver connector	T	Transmitter
R	Receiver	<b>‡</b>	Controller

# **Physical connections**



# **Architects' and Engineers' Specifications**

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 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 SX-transceiver shall be a Bosch PRA-SFPSX.

# Certifications and approvals

Emergency standard certifications		
Europe	EN 54-16	
International	ISO 7240-16	
Regulatory areas		
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	0.5 W	
Speed	IEEE 802.3z 1000BASE-SX	
Transmitter power	-4 to -9.5 dBm	

Interface	
Receiver sensitivity	< -18 dBm
Connection	Hot swappable, Locking

#### **Optical**

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

#### **Environmental**

Climatic conditions		
Temperature Operating Storage and transport	-40 to +85 °C (-40 to 185 °F) -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

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