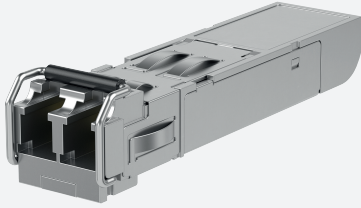


# SFP Transceiver

## FieldConnex®

### SFP-1



- Certified for use with Ethernet-APL field switches in Zone 2
- Class 1 laser product complies with EN 60825-1
- SFP Multi-Source Agreement compliant
- Ethernet link up to 2 km
- Duplex LC connector

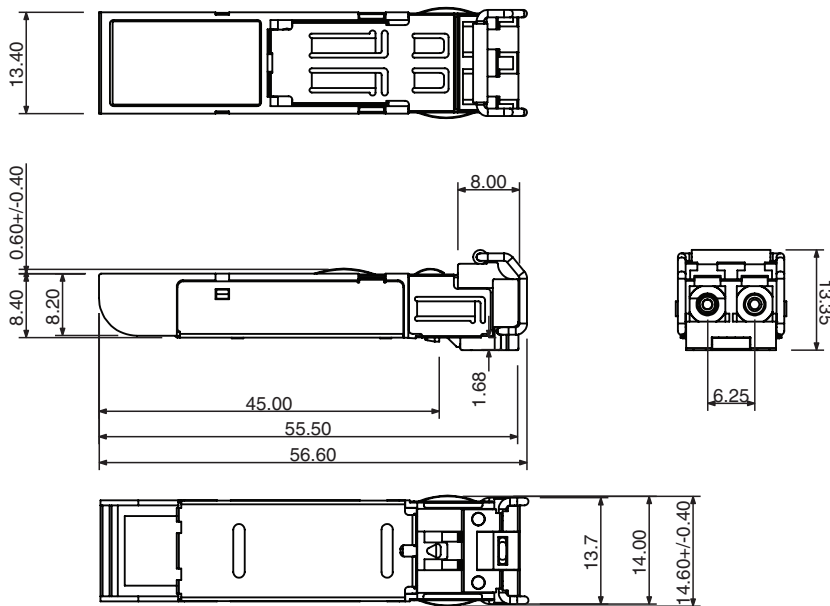
SFP transceiver, 2 km, 100BASE-FX, fast Ethernet multimode fiber



## Function

The SFP-1 is an industrial rated SFP transceiver supporting 100 MBit/s fast Ethernet fiber-optical communication up to a link length of 2 km. The device is certified for installation in explosion-hazardous area Zone 2 and is intended to be used with Pepperl+Fuchs Ethernet-APL field switches.

## Dimensions



## Technical Data

### General specifications

Installation in hazardous area Zone 2

### Ethernet Interface

Interface type 100BASE-FX Fast Ethernet fiber  
Connection type duplex LC to duplex LC

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## Technical Data

Transfer rate	155 MBit/s
Fiber optics functionality	
Wave length	1310 nm
Cable type	50/125µm or 62.5/125µm multi-mode fiber optic
Cable length	max. 2 km
Connector type	1 Duplex LC
Transmit power (optical)	-20 ... 14 dBm
Receive sensitivity	-31 ... -8 dBm
Link budget	11 dBm
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013
<b>Conformity</b>	
Electromagnetic compatibility	EN 61326 , NE 21
Ethernet	IEEE 802.3u for 100BASE-FX Fast Ethernet fiber
Shock resistance	EN 60068-2-27
Vibration resistance	EN 60068-2-6
Climatic conditions	DIN IEC 721
Laser safety	EN 60825-1 AEL Class 1
<b>Ambient conditions</b>	
Ambient temperature	-40 ... 85 °C (-40 ... 185 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Relative humidity	≤ 95 % non-condensing
Shock resistance	15 g 11 ms
Vibration resistance	1 g 10 ... 150 Hz
<b>Mechanical specifications</b>	
Housing	SFP Multi-Source (MSA) compliant
Mass	17 g
<b>Data for application in connection with hazardous areas</b>	
EU-type examination certificate	TÜV 20 ATEX 8572 X
Marking	⊕ II 3 G Ex ec IIC T4 Gc
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2018 , EN 60079-11:2012 , EN 60079-15:2015
<b>International approvals</b>	
IECEX approval	IECEX TUR 21.0013X
Approved for	Ex ec IIC T4 Gc
<b>General information</b>	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .