

IE-SFP-1FE-SM-60**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Features of SFP-Transceiver series**

- Huge variety of transceiver types for several transmission speeds (up to 10 Gigabit Ethernet) and distances (up to 60 km)
- BiDi SFP models for communication via single fiber
- Easy control of transceiver status due to support of Digital Diagnostic Monitoring (DDM)
- Hot pluggable (during operation)
- Class 1 laser product, EN60825-1 compliant
- Applicable for switches of the Eco-, Advanced- and SubstationLine

General ordering data

Version	SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 60 km, -40 °C...85 °C
Order No.	2682470000
Type	IE-SFP-1FE-SM-60
GTIN (EAN)	4050118692242
Qty.	1 pc(s).

IE-SFP-1FE-SM-60

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Technical data

Dimensions and weights

Net weight	17.5 g
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Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...85 °C
Humidity	5 to 95 % (non-condensing)		

EMC conformity and approvals

EMC standards	EN 55032, EN 55035	Safety standard	UL 62368-1
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Environmental conditions

Humidity	5 to 95 % (non-condensing)	Operating temperature, max.	85 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C		

Fibre optic transceiver characteristics

Transmission rate	100 Mbps														
Digital diagnostic monitor function (DDM)	Supported														
Transceiver type	Singlemode														
Connector type	LC-Duplex														
Transmission distance, typ.	60 km														
Wavelength	<table border="1"> <tr> <td>typ.</td> <td>1,310 nm</td> </tr> <tr> <td>Wavelength</td> <td>TX</td> </tr> <tr> <td>min.</td> <td>1,280 nm</td> </tr> <tr> <td>max.</td> <td>1,340 nm</td> </tr> <tr> <td>Wavelength</td> <td>RX</td> </tr> <tr> <td>min.</td> <td>1,260 nm</td> </tr> <tr> <td>max.</td> <td>1,620 nm</td> </tr> </table>	typ.	1,310 nm	Wavelength	TX	min.	1,280 nm	max.	1,340 nm	Wavelength	RX	min.	1,260 nm	max.	1,620 nm
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Wavelength	TX														
min.	1,280 nm														
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Receive power	<table border="1"> <tr> <td>min.</td> <td>-34 dBm</td> </tr> <tr> <td>max.</td> <td>-3 dBm</td> </tr> </table>	min.	-34 dBm	max.	-3 dBm										
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Transmission power	<table border="1"> <tr> <td>min.</td> <td>-5 dBm</td> </tr> <tr> <td>max.</td> <td>0 dBm</td> </tr> </table>	min.	-5 dBm	max.	0 dBm										
min.	-5 dBm														
max.	0 dBm														
Link-budget	29 dB														
Note	When connecting a single-mode fiber transceiver over a short distance, we recommend using an attenuator to prevent the transceiver from being damaged by excessive optical power.														

Guarantee

Time interval	3 years
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Power supply

Voltage supply	3.3 V (via Ethernet switch)
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Technical data

Type of mounting	Insert in SFP slot
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Classifications

ETIM 6.0	EC001121	ETIM 7.0	EC001121
ETIM 8.0	EC003628	ETIM 9.0	EC003628
ECLASS 9.1	27-44-02-92	ECLASS 10.0	27-44-02-92
ECLASS 11.0	19-17-03-03	ECLASS 12.0	19-17-03-03
ECLASS 13.0	19-17-03-03		

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E230683

Downloads

Approval/Certificate/Document of Conformity	EU Declaration of Conformity RCM Declaration of Conformity UK Declaration of Conformity
Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format

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www.weidmueller.com**Accessories****LC-Duplex**

Mounting rail outlet, LC duplex junction design according to IEC 61754-20

General ordering data

Type	IE-TO-LCD-SM	Version
Order No.	8947020000	Mounting rail outlet, fibre-optic, LC Duplex, Singlemode, IP20
GTIN (EAN)	4032248735037	
Qty.	10 pc(s).	