

IE-MCT-1RS232/485-1SC
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com
Product image

Serial/fibre-optic converter

Media converter for implementing serial, copper-based interfaces on fibre-optic cables and vice versa. Facilitates communication between terminal devices with type RS232/422/485 serial interface over a distance of up to 5 km.

- Ring and point-to-point transmission modes
- Extension of the RS232/422/485 transmission to up to 5 km
- Supports baud rates of 50 bps to 921.6 Kbps
- Expanded temperature range of -40 to 75°C
- Compact design

General ordering data

Version	Serial/fibre-optic converter, 1 x terminal block for RS232/422/485, 1 x SC multimode, IP30, -40 °C...75
Order No.	1344760000
Type	IE-MCT-1RS232/485-1SC
GTIN (EAN)	4050118146837
Qty.	1 items
Delivery status	Discontinued
Available until	2022-06-01T00:00:00+02:00

IE-MCT-1RS232/485-1SC

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E230683

Dimensions and weights

Depth	22	Depth (inches)	0.8661 inch
Height	100 mm	Height (inches)	3.937 inch
Width	90.2 mm	Width (inches)	3.5512 inch
Net weight	130 g		

Temperatures

Storage temperature	-40 °C...75 °C	Operating temperature	-40 °C...75
Humidity	5 to 95 % (non-condensing)		

Environmental Product Compliance

RoHS Compliance Status	Compliant
REACH SVHC	Lead 7439-92-1
SCIP	9229992a-00b9-4096-8962-200a7f33e289

Input

Type of connection	SC connection, Multimode
--------------------	--------------------------

General specifications

Type of connection	SC connection, Multimode	Protection degree	IP30
--------------------	--------------------------	-------------------	------

Mobile radio interface

Transmit power	> - 5 dBm
----------------	-----------

Enclosure material

Housing main material	Aluminium
-----------------------	-----------

Technical data

Type of connection	SC connection, Multimode
--------------------	--------------------------

Serial interface

Baud rate	50 bit/s to 921.6 kbit/s	Interface standards	RS-232/422/485
Serial cable protection	15 KV ESD protection for all signals	Connection type	1 removable 7-pole terminal block
RS485 data direction control	ADDC® (automatic data direction control)		

IE-MCT-1RS232/485-1SC

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

fibre-optic interface

Type of connection	SC connection, Multimode	Transmit power	> - 5 dBm
Typical distances	5 km (50/125, 62.5/125, 100/140 µm multimode cable)	Receive sensitivity	-20 dBm
Transmission mode: "Ring"	Half-duplex	Wave length	850 nm
Transmission mode: "Point-to-point"	Half-duplex, Full-duplex		

EMC conformity and approvals

EMC standards	FCC Part 15 Class B, EN 61000-4-2 (ESD), Stage 3, EN 61000-4-3 (RS), Stage 2, EN 61000-4-4 (EFT), Stage 2, EN 61000-4-5 (Surge), Stage 3, EN 61000-4-6 (CS), EN 61000-4-8, Stage 1	Safety standard	UL 60950-1
---------------	--	-----------------	------------

Environmental conditions

Operating temperature, max.	75	Operating temperature, min.	-40 °C
Humidity	5 to 95 % (non-condensing)	Storage temperature, max.	75 °C
Storage temperature, min.	-40 °C		

Guarantee

Time interval	5 years
---------------	---------

Interfaces

Function DIP switch	Activation / deactivation of terminating resistor, Activation of ring mode, Activation of point-to-point mode	Interface standards	RS-232/422/485
Serial cable protection	15 KV ESD protection for all signals	RS485 data direction control	ADDC® (automatic data direction control)

MTBF

MTBF	According to Standard	Telcordia (Bellcore), GB
	Operating time (hours), min.	780480 h

Power supply

Reverse polarity protection	Available	
Supply voltage	24 V DC, 1 single input	
Overload current protection	1.1 A	
Supply line protection	2 KV Burst (EFT), EN61000-4-4, 2 KV Surge, EN61000-4-5	
Connection type	1 removable 3-pole terminal block	
Voltage supply range	Voltage type	DC
	Voltage, min.	12 V
	Voltage, max.	48 V
Current consumption	Voltage	12 V
	Current	140 mA
	Voltage	24 V
	Current	67.7 mA

IE-MCT-1RS232/485-1SC

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Voltage	48 V
Current	28.7 mA

Serial communication parameters

Baud rate	50 bit/s to 921.6 kbit/s
-----------	--------------------------

Serial signals

RS232	Tx, Rx, GND	RS422	TxD+, TxD-, RxD+, RxD-, GND
RS485 2-wire	Data+, Data-, GND	RS485 4-wire	TxD+, TxD-, RxD+, RxD-, GND

Technical data

Housing main material	Aluminium	Type of mounting	Mounting plate, Wall mounting, when screwed in, TS 35, (with optional mounting kit IE-DINRAILMOUNT-KIT 1504430000)
Protection degree	IP30		

WLAN interface

Transmit power	> - 5 dBm
----------------	-----------

Classifications

ETIM 8.0	EC000310	ETIM 9.0	EC000310
ETIM 10.0	EC000310	ECLASS 14.0	19-17-04-11
ECLASS 15.0	19-17-04-11		

IE-MCT-1RS232/485-1SC**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Accessories****Mounting kit for DIN rail mounting**

Mounting kit for alternative fixing of Weidmüller serial/
fibre-optic cable converters (Article 1344760000 and
1362950000) to the DIN rail.

General ordering data

Type	IE-DINRAILMOUNT-KIT	Version	
Order No.	1504430000	Kit for DIN-rail mounting	
GTIN (EAN)	4050118312263		
Qty.	1 ST		