

STAR COUPLER STAR-10

Monitoring and Control Program

NU-17024E

Application

Star coupler STAR-10 provides connecting of distributed devices with optical communication in star configuration to one central unit. Depending upon position of switch S2, device can operate in two modes: The first mode interconnects data from five optical inputs to one RS485 (RS232C) communication line. The second mode interconnects data from four optical inputs CH1-CH4 to output CH0. Slave units connected to optical lines should have different addresses. If more than five optical lines are required, it is possible to connect up to 31 devices STAR-10 on one RS485 line. In this way, distributed star coupler is obtained with more optical inputs. Star coupler is intended for use in power and industrial plants and in other objects where fast and reliable data transfer is ensured in harsh environment.

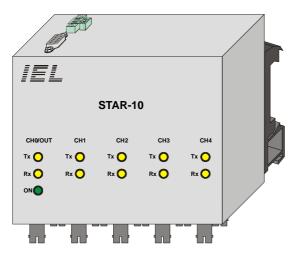


Figure 1. Star coupler STAR-10

Main features

- data transfer and media conversion independent of communication protocol
- cascading of up to 31 devices STAR-10
- data rate selection 9,6 kbps to 1,5Mbps by setting DIP-switch S1 for RS485
- indication of data transfer on optical lines
- line length up to 1500m for multimode $62,\!5/125\mu m$ optical cable (G.F.O.) or 50m for $980/1000\mu m$ multimode optical cable (P.F.O.)
- wide range of power supply voltages
- small dimensions, wall or DIN rail mounting

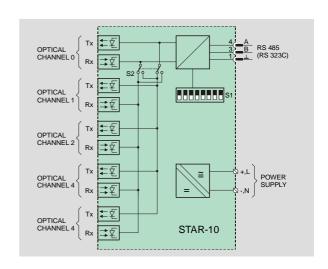


Figure 2. STAR-10 terminal diagram

Technical specifications

Optical inputs: number	4(5)
	multimode, 62,5/125 μm (G.F.O.) or
wavelength	multimode, 980/1000 μm (P.F.O.) 820 nm or 660nm
RS485 input:	
cable	shilded twisted pair LiY-CY 2x0.75mm2
settings:	, -
data rate	9,6/19,2/38,4/57,6/115,2/ 187,5/500/1500 kbaud
	(DIP switch S1)
signalling:	
Tx, Rx Power supply	LED yellow/channel
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connection:.	.9-pin SubD connector for RS485,(RS232C) ST connectors for optical cable (G.F.O.) snap-in connectors for optical cable (P.F.O.) 2x2,5mm2 plug-in connector for supply
temperature extended ter	range:10 ^o C+50 ^o C nperature range:20 ^o C+60 ^o C
mechanical mounting	data: on DIN rail or on the wall 115 x 110 x 65 mm

