



Worldwide innovation: AS-i signal transmission via fibre optic



AS-Interface wiring technology



AS-Interface signal transmission over a distance of up to 3.2 km

Possibility of mixed operation (AS-i flat cable and fibre optic)

Lightning protection, radiated EM interference immunity

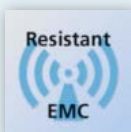
High operational reliability

Electrical separation

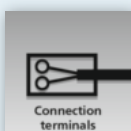
Plug-in connection terminals



IP 20



LED diagnostics



AS-i fibre optic repeater

ifm's new AS-i fibre optic repeater enables AS-Interface signal transmission via an optical medium and vice versa. This allows for considerable cable length extension in the AS-i network.

Every AS-i fibre optic repeater has two independent channels that consist of a transmitting and a receiving element which are supplied via the AS-Interface system. Various LEDs indicate the current operating status. This innovation is integrated into the new SmartLine housing.



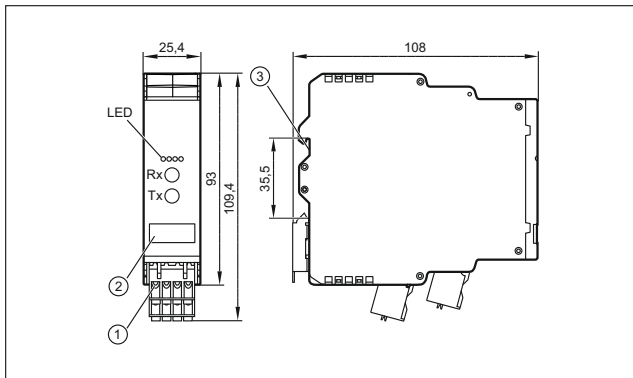
Performance in the field

Optical transmission means there is no interfering radiation, nor are there any ground problems. Fibre optic transmission systems exclude any EMC risk, as a matter of principle.

As to distance related losses due to inductances, capacities and resistances (as is the case with copper cables for example), they do not occur either. Consequently, the new AS-i fibre optic repeater contributes decisively to life time extension and cost reduction.

Using the new AS-i fibre optic repeater allows for additional fibre optic network topologies (line topology, star topology).

Dimensions



- 1) plug with cage clamp connection
- 2) panel for labelling
- 3) Din rail adapter

Products

Type	Description	Order no.
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Smartline AS-i fibre optic repeater



Cable length in the AS-i network of up to 3.2 km, integrated passive bus termination, protection rating IP20, COMBICON connectors

AC3227

Technical data

Smartline AS-i fibre optic repeater AC3227

Operating voltage	[V DC]	26.5...31.6
Total current consumption	[mA]	< 80
AS-i specification		2.11 + 3.0
Fibre optic connector		ST
Compatible fibre types		Multimode: 50/125 µm, 62.5/125 µm
Ambient temperature	[°C]	-25...70
Protection		IP 20

Accessories

Type	Description	Order no.
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AS-i power supply 115/230 V AC, output current (AS-i) 4 A

AC1257



AS-i power supply 115/230 V AC, output current (AS-i) 8 A

AC1258



Fibre optic cable, ST / ST, IP 20, 50 µm, 20 m, PUR

E74800

Fibre optic cable, ST / ST, IP 20, 50 µm, 50 m, PUR

E74801

Fibre optic cable, ST / ST, IP 20, 50 µm, 100 m, PUR

E74802