

Dimecon OPTI

Separator.

INTRINSICALLY
SAFE
SECURITY SYSTEMS



DESCRIPTION:

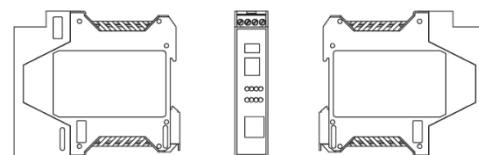
Dimecon series devices enable Ethernet-based communication with and control of equipment installed in explosion hazard zones. The Dimecon OPTI separator enables the connection of a 10/100Base-TX wired network to an optical fiber network (op is) routed through hazardous areas where there is a risk of explosion caused by combustible dust or flammable gases. A standard 8P8C (RJ-45) port is used for wired network connectivity, while the fiber optic interface can be configured to meet the requirements of the existing infrastructure using certified Dimecon PLUG SFP transceivers. The Dimecon OPTI separator has been designed and manufactured to meet the growing requirements for connection reliability and data transmission rate in extensive installations, including for use in explosion hazard zones.

PRODUCT FEATURES:

- complementary device for the Dimecon PLUG separator;
- 8P8C (RJ-45) input port;
- data transmission rate of up to 100 Mbit/s;
- 6 types of interchangeable certified SFP transceivers with (Ex op is) port;
- compact size;
- 35 mm DIN rail mounting;
- suitable for installation outside the explosion hazard zones, or within a flameproof enclosure (Ex d) or with protection by enclosure (Ex t);
- compatible with single-mode SM 9/125 μm networks;
- support for DDM (Digital Diagnostics Monitoring);
- LED indicator for received optical power level;
- diagnostics and parameter readout via the Ethernet interface.

TYPICAL APPLICATIONS:

- connection of (Ex op is) fiber optic networks to external networks;
- long-distance data transmission requiring high-speed and reliable connectivity to and from explosion hazard zones.





TECHNICAL PARAMETERS:

Power supply	
Supply voltage:	$U_n = 9 - 24 \text{ V DC}$
Current consumption:	$I_{ZAS} = 360 \text{ mA}$ (at 9 V supply voltage); $I_{ZAS} = 150 \text{ mA}$ (at 24 V supply voltage)
10/100Base-TX Ethernet interface	
Number of interfaces:	1
Connector type:	8P8C (RJ-45)
Data transmission rate:	10/100 Mbit/s
Additional features:	MDI/MDI-X (automatic straight-through/crossover cable detection); full/half duplex (auto-negotiation)
100Base-FX Ethernet fiber optic interface (SFP)	
Number of interfaces:	1
Connector type:	LC simplex or duplex
Data transmission rate:	100 Mbit/s
Fiber type:	9/125 μm single-mode (SM)
Maximum attenuation (distance):	25 dB (20 km)
Operating temperature range:	-20°C to +70°C
IP rating:	IP20
Mounting:	35 mm DIN rail
Dimensions:	166 × 95 × 22,5 mm
Weight:	0,1 kg
ATEX and IECEx certifications:	Ex: I (M1) [Ex op is Ma I]; Ex: II (1)G [Ex op is IIC T4 Ga]; Ex: II (1)D [Ex op is IIIC T85°C Da]