

## Optical Data Transmission ID-200



- **Optical Data Transmission**
- **Range 120 m, 200 m**
- **PROFIBUS / RS 485**
- **Interbus-S 500kbit/s / RS 422**
- **Interbus-S 2Mbit/s / Fibre Optic**
- **Data Highway + (DH+) / Remote I/O**

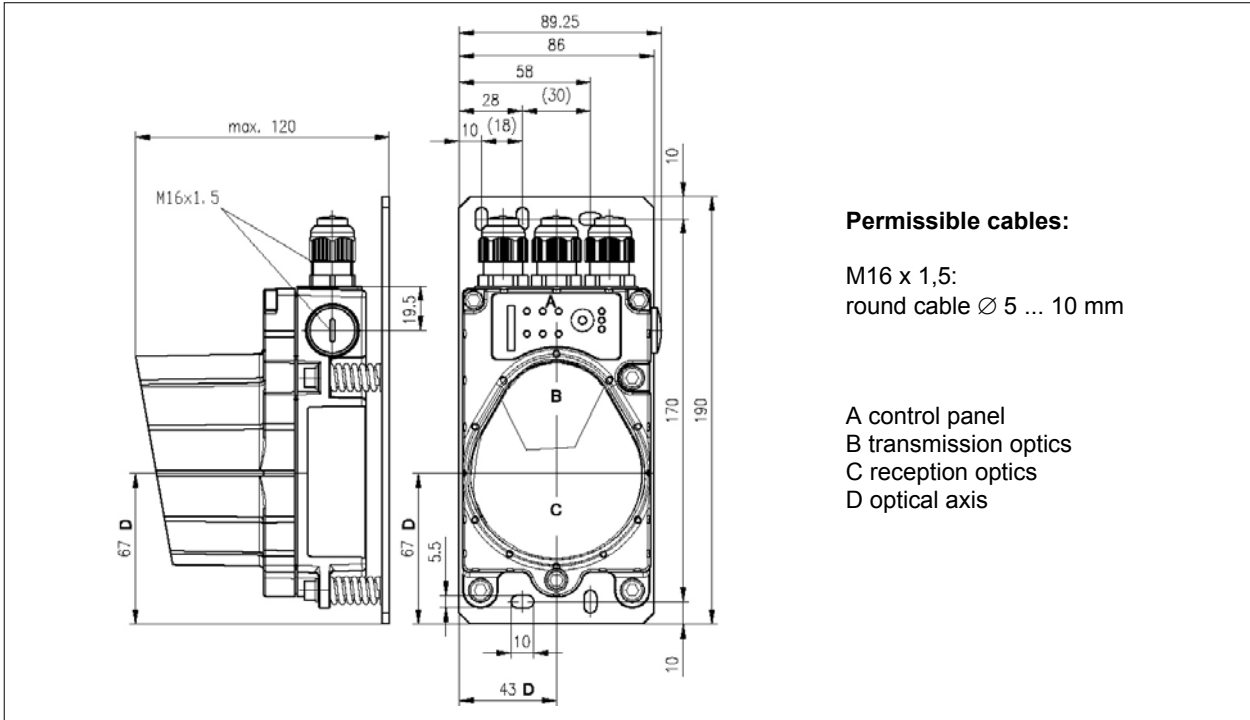
## General characteristics

<b>Electrical data</b>	
Supply voltage $V_{in}$ .....	18 ... 30 V DC
Current consumption without optics heating.....	Approx. 200 mA at 24 V DC (no load at switching output)
Current consumption with optics heating.....	Approx. 800 mA at 24 V DC (no load at switching output)
<b>Optical data</b>	
Sensing distance .....	0,2 ... 120 m, or 0,2 ... 200 m
Transmission diode .....	Infrared light, wavelength 880 nm
Opening angle .....	$\pm 0,5^\circ$ to optical axis
Ambient light.....	> 10000 Lux acc. to EN 60947-5-2 (2000)
Laser safety class.....	1 acc. to EN 60825-1 (2001)
<b>Input/output</b>	
Input.....	0 ... 2 V DC: transmitter/receiver deactivated 18 ... 30 V DC: transmitter/receiver activated
Output.....	0 ... 2 V DC: normal operation $V_{in} - 2$ V DC: limited performance reserve Output current max. 100 mA, short-circuit proof, protected against surge voltage, transients and overheating
<b>Operating and display elements</b>	
Membrane buttons.....	Change the operating mode
Individual LEDs .....	Indicate voltage supply, operating mode, data transmission
LED strip.....	Bar graph display of the receiving level
<b>Mechanical data</b>	
Housing .....	Aluminium diecast; light inlet/outlet, glass
Weight .....	Approx. 1200 g
Protection class .....	IP 65 acc. to EN 60529

## Environmental Data

Operating temperature.....	-5°C ... +50°C without optics heating
Erweitert .....	-30°C ... +50°C with optics heating (non-condensing)
Storage temperature .....	-30°C ... +70°C
Air humidity .....	max. 90% rel. humidity, non-condensing
Vibrations .....	acc. to EN 60068-2-6
Noise .....	acc. to EN 60068-2-64
Shock .....	acc. to EN 60068-2-27 and EN 60068-2-29
EMC .....	acc. to EN 61326 (1998) + A1 (1999)

**Dimensional Drawing, Copper Cable**



**Dimensional Drawing, Fibre Optic Cable**

