

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**

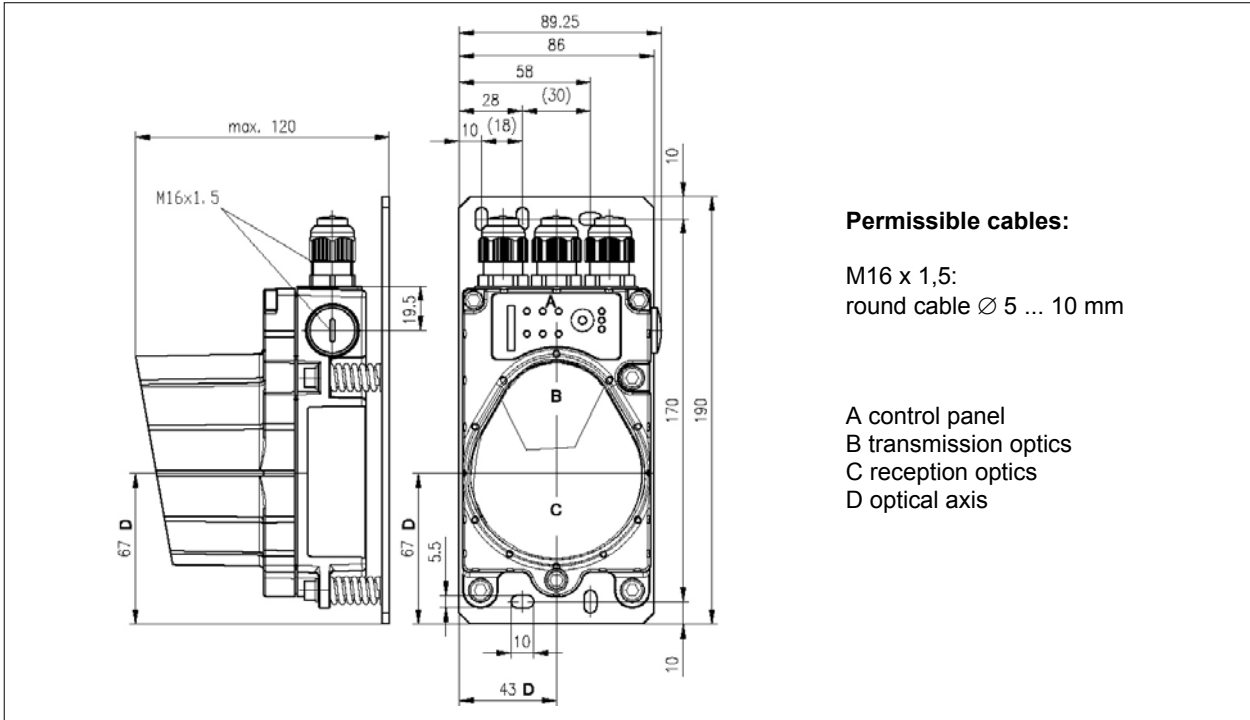
General characteristics

Electrical data	
Supply voltage Vin.....	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)
Optical data	
Sensing distance	0,2 ... 120 m, or 0,2 ... 200 m
Transmission diode	Infrared light, wavelength 880 nm
Opening angle	± 0,5° to optical axis
Ambient light.....	> 10000 Lux acc. to EN 60947-5-2 (2000)
Laser safety class.....	1 acc. to EN 60825-1 (2001)
Input/output	
Input.....	0 ... 2 V DC: transmitter/receiver deactivated 18 ... 30 V DC: transmitter/receiver activated
Output.....	0 ... 2 V DC: normal operation Vin - 2 V DC: limited performance reserve Output current max. 100 mA, short-circuit proof, protected against surge voltage, transients and overheating
Operating and display elements	
Membrane buttons.....	Change the operating mode
Individual LEDs	Indicate voltage supply, operating mode, data transmission
LED strip.....	Bar graph display of the receiving level
Mechanical data	
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

