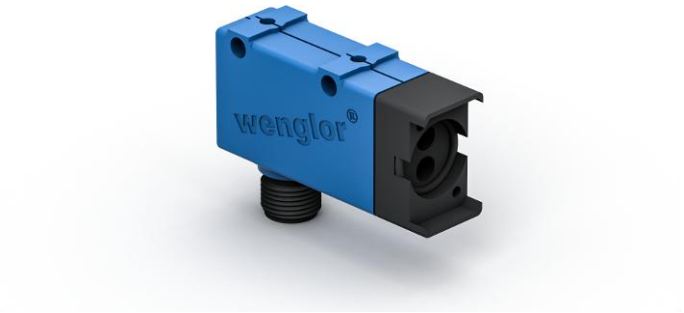
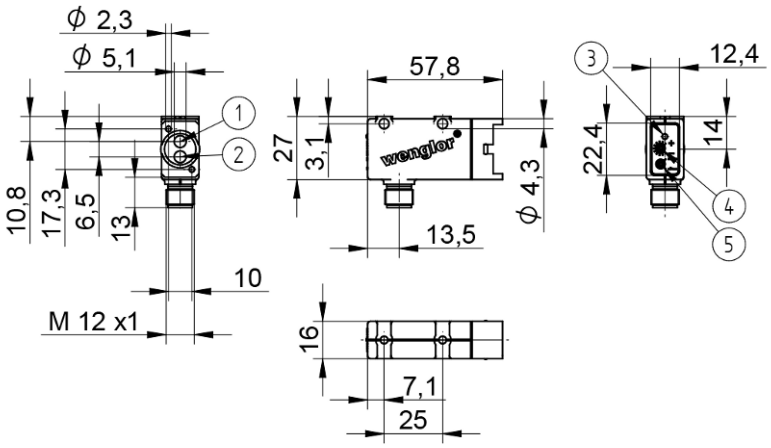
wenglor
the innovative family

Technical Data
UM55PCV2
Fiber-optic amplifier





Symbol	Key
1	Emitter diode
2	Receiver diode
3	Switching status indicator/contamination warning
4	Switching distance adjuster
5	NC/NO switch

EN

Dimensions in mm
Subject to change without notice
Version 0
www.wenglor.com

Technical data

Optical Data	
Range	500 mm
Switching Hysteresis	< 15 %
Light Source	Infrared, LED
Wavelength	880 nm
Service Life (T = +25 °C)	100000 h
Max. Ambient Light	10000 Lux
Opening Angle	12 °

Electrical Data	
Current Consumption (Ub = 24 V)	< 40 mA
Switching Frequency	1 kHz
Response Time	500 µs
Temperature Drift	< 10 %
Temperature Range	-25...60 °C
Switching Output Voltage Drop	< 2.5 V
PNP Switching Output/Switching Current	200 mA
Residual Current Switching Output	< 50 µA
PNP Contamination Output/Switching Current	50 mA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Protection Class	III

Mechanical Data	
Setting Method	Potentiometer
Housing Material	Plastic, PBT
Full Encapsulation	yes
Degree of Protection	IP67
Connection Type	Plug variant
Connection	M12 × 1; 4-pin

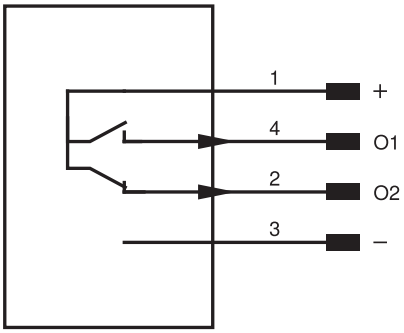
General Data	
Scope of delivery	1 × BEF-SET-08 mounting set 1 × initial start-up instructions 1 × sensor

Adjustable parameters	
Circuit	NC NC/NO NO

BMECat data	
eCl@ss 5.1.4	27-27-09-05 Optical fiber sensor
eCl@ss 6.x	27-27-09-05 Optical fiber sensor

BMECat data	
eCl@ss 7.0	27-27-09-05 Optical fiber sensor
eCl@ss 7.1	27-27-09-05 Optical fiber sensor
eCl@ss 8.x	27-27-09-05 Optical fiber sensor
eCl@ss 10.0.1	27-27-09-05 Optical fiber sensor

Technical illustrations



Pin	Pin function	Polarity	Circuit
1	Supply Voltage +		
2	Switching Output 2	PNP	NC
3	Supply voltage 0 V		
4	Switching Output 1	PNP	NO