

OT18E285**OPTICAL SENSORS • DIFFUSE REFLECTION SENSORS WITH BACKGROUND SUPPRESSION**

sensor optical, diffuse-reflection sensor, M18x1 82long, Sn: 50-150, 10-30V DC, 1x PNP Anticoincidence, Connector M12 4pin, IP67, Brass Chrome-plated+PMMA, 0.5kHz, Background suppression, Polarity free red light, Point, Teach-In

MECHANICAL FEATURES

Ambient temperature	-25 °C ... 55 °C
Degree of protection (IP)	IP67
Design	Cylinder, screw-thread
Housing coating	Chrome-plated
Housing material	Brass
Material of optical surface	PMMA
Reflector included in the scope of delivery	-
Sensor length	81.5 mm
Thread pitch	1 mm
Thread size, metric	18

ELECTRICAL FEATURES

Adjustment range	50 mm ... 150 mm
Analog output 0 mA ... 20 mA	-
Analog output 0 V ... 10 V	-
Analog output -10 V ... +10 V	-
Analog output 4 mA ... 20 mA	-
Max. switching distance	150 mm
Min. switching distance	50 mm
No-load current	30 mA
Number of pins	4
Number of switching outputs	1
Operating voltage	10 V ... 30 V
Rated switching current	100 mA
Rated switching distance	100 mm
Response time	1 ms
Reverse polarity protection	+
Scanning function	Light-/dark-on mode
Sensing range	50 mm ... 150 mm
Setting procedure	Teach-In
Short-circuit protection	+
Switching frequency	500 Hz
Type of electrical connection	Connector M12

ELECTRICAL FEATURES

Type of switching function	Anticoincidence
Type of switching output	PNP
Voltage type	DC
With LED display	+
With LED display (alarm)	+
With other analog output	-
With time function	-

OPTICAL FEATURES

Light source	Polarity free red light
Wavelength of the sensor	630 nm
Triangulation	Background suppression
Light beam form	Point
Background suppression	+

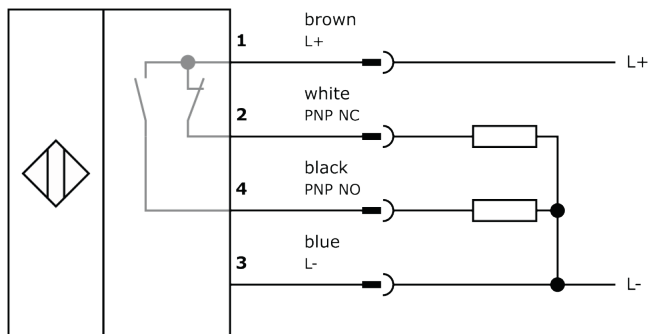
Other

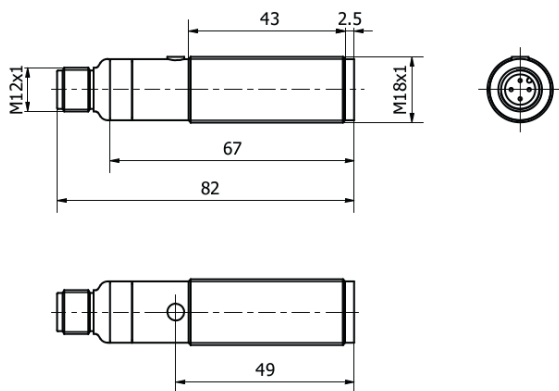
Packaging dimensions	77.0mm x 25.0mm x 123.0mm
Shipping weight	0.08kg
Tariff code	

Classification

ipf product group	700
eClass 8.0	27270904
eClass 9.0	27270904
eClass 9.1	27270904
ETIM-5.0	EC002719
ETIM-6.0	EC002719
ETIM-7.0	EC002719

Connection



Dimensional drawing**Installation**

Mounting / installation may only be carried out by a qualified electrician!

Disposal**Safety warnings**

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

Never use these devices in applications where the safety of a person depends on their functionality.

LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.