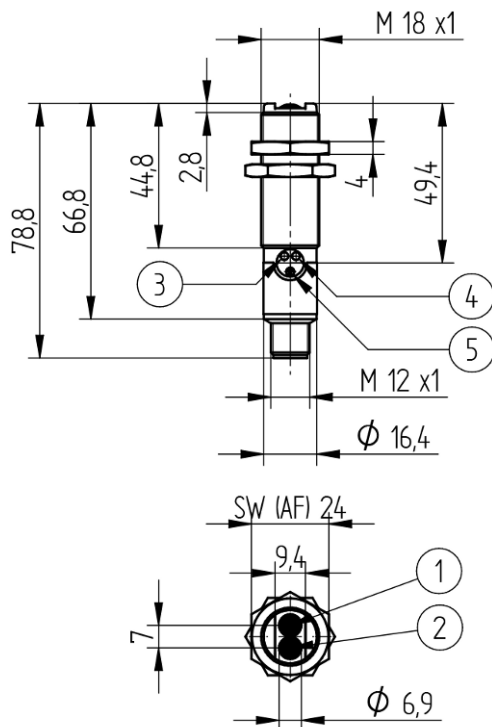


Technical Data

OHD202A0103

Reflex Sensor

with background suppression electronic



Symbol	Key
1	Emitter diode
2	Receiver diode
3	Power LED
4	Switching status indicator/contamination warning
5	Switching distance adjuster

EN



Technical data

Optical Data	
Range	200 mm
Setting Range	35...200 mm
Switching Hysteresis	< 5 %
Light Source	LED, red
Service Life (T = +25 °C)	100000 h
Max. Ambient Light	10000 Lux
Light Spot Diameter	see table
Principle	Triangulation

Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (U _b = 24 V)	< 30 mA
Switching Frequency	1000 Hz
Response Time	500 µs
Temperature Drift	< 5 %
Temperature Range	-25...60 °C
Number of Switching Outputs	2
Switching Output Voltage Drop	< 2.5 V
PNP Switching Output/Switching Current	200 mA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Protection Class	III

Mechanical Data	
Setting Method	Potentiometer
Housing Material	Stainless steel, V2A (1.4305/303)
Full Encapsulation	yes
Degree of Protection	IP67
Connection Type	Plug variant
Connection	M12 × 1; 4-pin

General Data	
Scope of delivery	1 × initial start-up instructions 1 × MUTTER-M18-E003 hex nut 1 × sensor

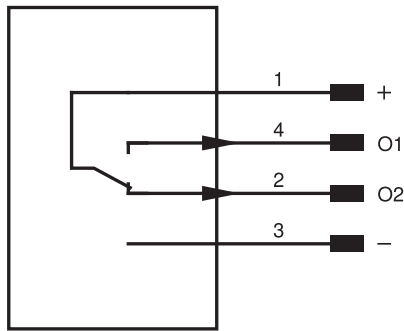
Adjustable parameters	
Circuit	NC NC+NO NO

All other parameters can be found in the product documentation.

* Valid for all sensors from revision C. The revision can be found in the production order number "xxxxx/C/xxxxxxx," which is indicated on the product label.

BMECat data	
eCl@ss 5.1.4	27-27-09-04 Light scanner w. background masking
eCl@ss 6.x	27-27-09-04 Light scanner w. background masking
eCl@ss 7.0	27-27-09-04 Light scanner w. background masking
eCl@ss 7.1	27-27-09-04 Light scanner w. background masking
eCl@ss 8.x	27-27-09-04 Light scanner w. background masking
eCl@ss 10.0.1	27-27-09-04 Light scanner w. background masking

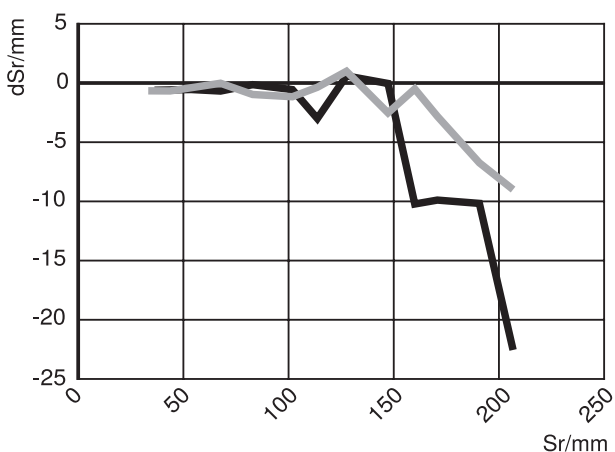
Technical illustrations



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

Table 1		
Detection Range	100 mm	200 mm
Light Spot Diameter	5 mm	12 mm

Illustration 1: Switching Distance Deviation
OHD202A0103



Typical characteristic curve based on white, 90 % remission

Sr = Switching Distance

dSr = Switching Distance Change

— black 6 % remission

— grey 18 % remission

