wenglor
the innovative family

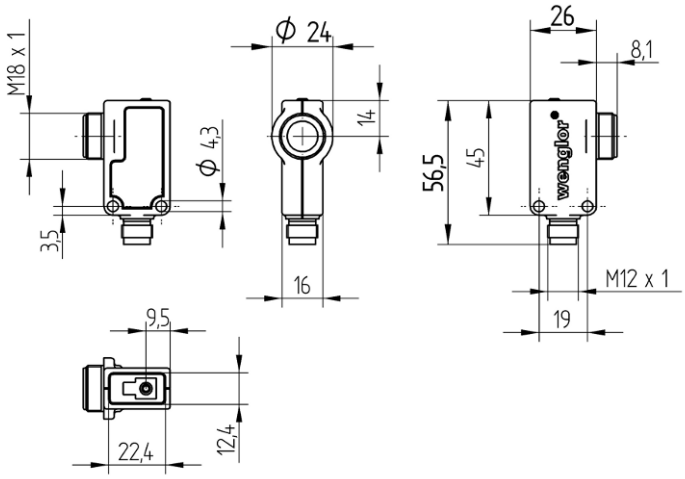
Technical Data

KR87PCT2

Retro-Reflex Sensor

for Transparent Objects





Symbol	Key
1	Optical axis
2	Switching status indicator/contamination warning
3	Teach-in button

EN

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

Technical data

Optical Data	
Range	4000 mm
Reference Reflector/Reflector Foil	RQ100BA
Clear Glass Recognition	yes
Switching Hysteresis	< 5 %
Light Source	LED, red
Polarization Filter	yes
Service Life (T = +25 °C)	100000 h
Max. Ambient Light	10000 Lux
Opening Angle	5 °
Optics	Single-Lens Optic

Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (Ub = 24 V)	< 40 mA
Switching Frequency	2 kHz
Response Time	250 µs
On-/Off-Delay (RS-232)	0...5 s
Temperature Drift	< 5 %
Temperature Range	-10...60 °C
Switching Output Voltage Drop	< 2.5 V
PNP Switching Output/Switching Current	200 mA
Residual Current Switching Output	< 50 µA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Lockable	yes
Teach Mode	NT, MT
Protection Class	III

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

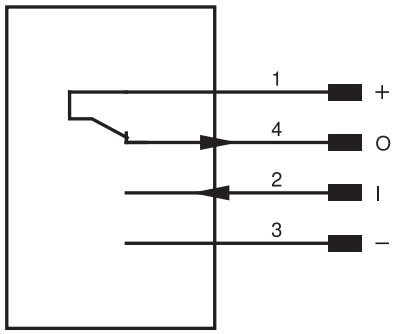
General Data	
Scope of delivery	1 × initial start-up instructions 1 × MUTTER-M18-E012 hex nut 1 × sensor

Adjustable parameters	
Circuit	NC NC/NO NO
Other parameters	Off-delay On-delay

All other parameters can be found in the product documentation.

BMECat data	
eCl@ss 5.1.4	27-27-09-02 Reflection light barrier
eCl@ss 6.x	27-27-09-02 Reflection light barrier
eCl@ss 7.0	27-27-09-02 Reflection light barrier
eCl@ss 7.1	27-27-09-02 Reflection light barrier
eCl@ss 8.x	27-27-09-02 Reflection light barrier
eCl@ss 10.0.1	27-27-09-02 Reflection light barrier

Technical illustrations



Pin	Pin function	Polarity	Circuit
1	Supply Voltage +		
2	Teach-in input	High active	
3	Supply voltage 0 V		
4	Switching output	PNP	NC

Reflector data	
RQ100BA	0...4 m
RE18040BA	0...3 m
RQ84BA	0...4 m
RR84BA	0...4 m
RE9538BA	0...1.5 m
RE6151BM	0...3.6 m
RR50_A	0...3 m
RE6040BA	0...3.5 m
RE8222BA	0...2 m
RR34_M	0...1.8 m
RE3220BM	0...1.8 m
RE6210BM	0...1.2 m
RR25_M	0...1.4 m
RR25KP	0...1 m
RR21_M	0...1 m

Reflector data	
ZRAE02B01	0...2 m
ZRME01B01	0...0.6 m
ZRME03B01	0...2.8 m
ZRMR02K01	0...0.8 m
ZRMS02_01	0...0.9 m
RF505	0...1.2 m
RF508	0...1.1 m
RF258	0...1 m
ZRDF__K01	0...4 m
Z90R012	0...1.1 m
Z90R013	0...2.43 m
Z90R014	0...2.1 m
Z90R015	0...1.3 m

Reflector type, mounting distance

