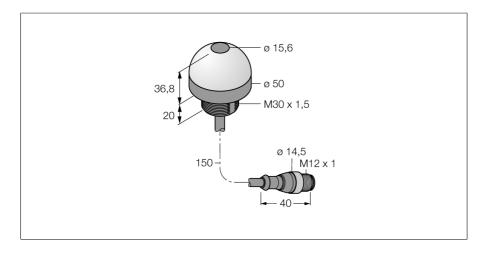


Pick-to-Light Placement Sensor Retroreflective Sensor with Polarizing Filter K50RPLPGXDQP



Туре	K50RPLPGXDQP
ID	3076009

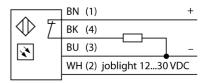
Pick-to-Light	
Retroreflective Sensor	
2000 mm	
Red	
1	
Momentary	
Green, Permanently on	
I/O module-compatible	
Wash down	

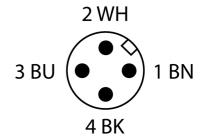
Electrical data		
Operating voltage U _B	1230 VDC	
DC rated operating current I _e	≤ 150 mA	
Max. current consumption per color	75 mA	
Output function	NC contact, PNP	
Input type	PNP	
	1111	
Response time typical	< 3 ms	

Response time typical	< 3 ms	
Mechanical data		
Design	Dome, K50	
Dimensions	Ø 50 x 56.8 mm	
Housing material	Plastic, PC, Black	
Window material	Polycarbonate, diffuse	
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PVC	
Number of cores	4	
Ambient temperature	-40+50 °C	
Relative humidity	090%	
Protection class	IP67	
	IP69	

- Protection class IP67
- Cable with male end M12 x 1, 4-pin, 150 mm
- Job light: green
- Mispick: not signalled
- Actuation: not signalled
- Operating voltage 12...30 VDC
- PNP switching
- NC contact

Wiring Diagram





Functional principle

The K50 pick-and-place sensor is suitable for many mounting and component placement applications. The green work light or other signal lights are reflected perfectly by the entire dome (depending on the version). The transistor output can be easily connected to a system control, which is programmed for a special task sequence. The work light of the sensor is located in or next to every bin at the operator's workstation and indicates: 1. The bins with the components to be picked up for a particular work step and 2. the sequence in which the components have to be picked up. If the operator removes a part from the bin, the K50 detects the hand in the bin and sends a signal to the control unit. The system then checks if the correct component has been picked up and - depending on the configuration – switches the corresponding work light off and the next one on, according to the assembly sequence. The work sequence control



Tests/approvals	
MTTF	146 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cULus listed

leads to increased efficiency, improved quality control and reduces rework and testing expenses.

The term **work light** therefore refers to the visual indicator of the bin from which a part should be removed next. The **actuation indicator** confirms the removal with a different color. The **mispick indicator** illuminates if a bin was reached into when the work light was not set.



Accessories

Type code	Ident no.		Dimension drawing
SMB30A	3032723	Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread	o 30.5 6,3 wide o 6,3 7,5 R 40 69
SMB30SC	3052521	Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable	12.7 68.5 0 7 50.8 12.7 58.7 50.8
SMB30FA	3074005	Montagewinkel; Werkstoff VA 1.4401	78.4 60.3 19 0 30,1 3/8-16 UNC

Function accessories

Type code	Ident no.		Dimension drawing
BRT-51X51BM	3071791	Rectangular reflector, reflection coefficient 2.0, material acrylic, ambient temperature -20 +60 °C, microprism geometry	61 04.5
BRT-84	3058979	Round reflector, reflection coefficient 1.4, material acrylic, ambient temperature -20 +60 °C	77.4 0 4.5