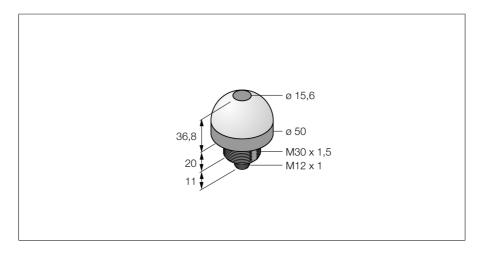


Pick-to-Light Placement Sensor Retroreflective Sensor with Polarizing Filter K50LPGRYS1Q



Туре	K50LPGRYS1Q		
ID	3093511		
Signal and display data			
Purpose	Pick-to-Light		
Function	Retroreflective Sensor		
Max. range	2000 mm		
Light type	Red		
Number of beams	1		
Switch Function	Momentary		
atures of color 1 Green, Programmable			
Features of color 2	Red		
Features of color 3	Yellow		
Special features	Wash down		
Electrical data			
Operating voltage U _B	1230 VDC		
DC rated operating current I _e	≤ 150 mA		
Max. current consumption per color	110 mA		
Communication protocol	cation protocol Modbus RTU		
Output function	NO contact, PNP/NPN		
Input type	Communication protocol		
Response time typical	< 3 ms	< 3 ms	

Dome, K50

-40...+50 °C

0...90%

IP67

IP69

Ø 50 x 67.8 mm

Plastic, PC, Black

Polycarbonate, diffuse

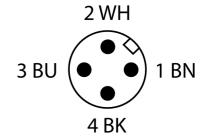
Connector, M12 × 1, PVC

-	Protection	class	IP67

- Male M12 x 1, 4-pin
- Job light, green
- Mispick, red
- Actuation, yellow
- Operating voltage 12...30 VDC
- RS485 interface
- Supports Modbus RTU

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 leads to increased efficiency, improved quali-

Mechanical data

Housing material

Window material

Number of cores

Relative humidity

Protection class

Electrical connection

Ambient temperature

Design

Dimensions



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

ty 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 M30 x 1,5 0 7 50.8 29
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	61 045
BRT-84	3058979	Round reflector, reflection coefficient 1.4, material acrylic, ambient temperature -20 +60 °C	77.4 0 4.5