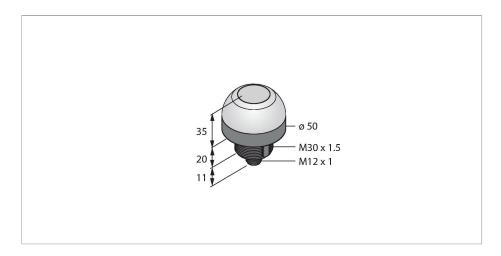


K50RNT2GRCQ Pick-to-Light – Placement Sensor Capacitive Sensor





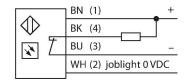
Туре	K50RNT2GRCQ	
ID	3096713	
Signal and display data		
Purpose	Pick-to-Light	
Function	Touch Button	
Light type	Green Red	
Switch Function	Momentary	
Features of color 1	Green, Permanently on, 29 Im	
Features of color 2	Red, 13 lm	
Special features	I/O module-compatible Wash down	
Electrical data		
Operating voltage	1230 VDC	
DC rated operational current	≤ 150 mA	
Max. current consumption per color	75 mA	
Output function	NC contact, NPN	
Input type	minus-schaltend	
Response time typical	< 50 ms	
Mechanical data		
Design	Dome, K50	
Dimensions	Ø 50 x 66 mm	
Housing material	Plastic, PC, Black	
Window material	Polycarbonate, diffuse	
Electrical connection	Connector, M12 × 1, PVC	
Number of cores	5	



Features

- Protection class IP67/IP69K
- ■M12 × 1 connector
- ■Job light: green
- Mispick: -
- Actuation: red
- Operating voltage 12...30 VDC
- ■NPN switching
- ■NC contact
- Capacitive sensor of the second generation
- High immunity to false actuation by splashing, detergents, oils and other contaminants

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

Technical data

Ambient temperature	-40+50 °C
Relative humidity	090 %
Protection class	IP67 IP69
Tests/approvals	
MTTF	146 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cULus listed

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 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

3052521

Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable

Accessories

SMB30A	3032723	SMB30SC
	Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread	

3074005



Montagewinkel; Werkstoff VA 1.4401

Accessories

Dimension drawing	Туре	ID	
M12 x 1 o 15 14 + 11.5 + 42 L	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
255 32 32 32 35 35 35 35 35 35 35 35 35 35 35 35 35	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval