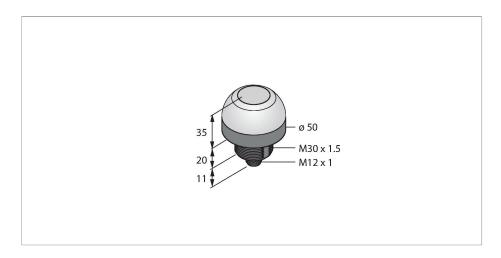


K50APT2GRCQ Pick-to-Light – Placement Sensor Capacitive Sensor





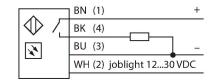
Туре	K50APT2GRCQ		
ID	3096694		
Signal and display data			
Purpose	Pick-to-Light		
Function	Touch Button		
Light type	Green Red		
Switch Function	Momentary		
Features of color 1	Green, Permanently on, 29 Im		
Features of color 2	Red, 13 lm		
Special features	I/O module-compatible Wash down		
Electrical data			
Operating voltage U _B	1230 VDC		
DC rated operating current I _e	≤ 150 mA		
Max. current consumption per color	75 mA		
Output function	NO contact, PNP		
Input type	PNP		
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
- ■PNP switching
- ■NO 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

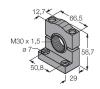
correct component has been picked up and - depending on the configuration - switches the corresponding work light off and the next one on, according to the assembly sequence. The work sequence control leads to increased efficiency, improved quality control and reduces rework and testing expenses. The 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

Accessories

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

3052521 Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable





SMB30FA 3074005 Montagewinkel; Werkstoff VA 1.4401



Accessories

Dimension drawing	Туре	ID	
M12 x 1 \(\text{ 0 15} \) \(\text{ 2 14} \) + 11.5 \(\text{ 42} \) L	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
0 15 M12 x 1 265 32	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval

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