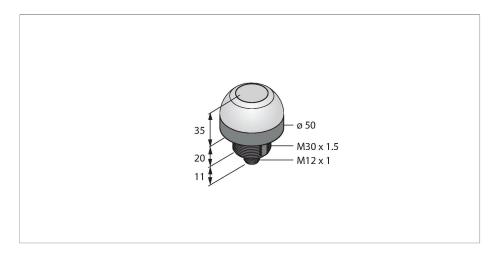


K30APT2GYCQ Pick-to-Light – Placement Sensor Capacitive Sensor





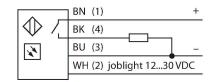
Type	K30APT2GYCQ	
ID	3803197	
Signal and display data		
Purpose	Pick-to-Light	
Function	Touch Button	
Switch Function	Momentary	
Features of color 1	Green, Permanently on, 4.4 Im	
Features of color 2	Yellow, 4.4 lm	
Special features	Wash down	
Electrical data		
Operating voltage	1230 VDC	
DC rated operational current	≤ 150 mA	
Max. current consumption per color	55 mA	
Output function	NO contact, PNP	
Input type	PNP	
Response time typical	< 150 ms	
Mechanical data		
Design	Dome, K50	
Dimensions	Ø 30 x 54.5 mm	
Housing material	Plastic, PC, Black	
Window material	Polycarbonate, diffuse	
Electrical connection	Connector, M12 × 1, PVC	
Number of cores	4	
Ambient temperature	-40+50 °C	
Relative humidity	090 %	



Features

- Protection class IP67/IP69K
- ■M12 × 1 connector
- ■Job light: green
- Mispick: not signalled
- ■Actuation: yellow
- 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

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

sensors with 30 mm thread, rotatable

Accessories

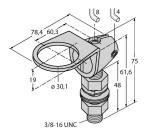
SMB30A 3032723 SMB30SC 3052521 Mounting bracket, PBT black, for

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





SMB30FA 3074005



Montagewinkel; Werkstoff VA 1.4401

Accessories

Dimension drawing	Туре	ID	
M12x1 o 15 14 11.5 50 -	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
e 15 M12x 1	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval