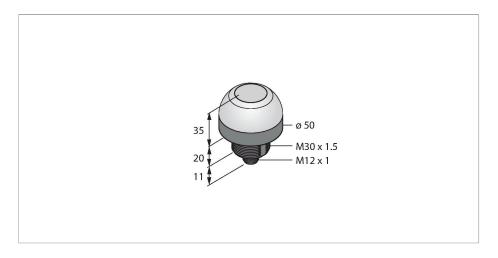


K30APTGYCQ Pick-to-Light – Placement Sensor Capacitive Button





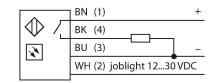
ID 3082216 Signal and display data Purpose Pick-to-Light Function Touch Button Switch Function Momentary Features of color 1 Green, Permanently on Features of color 2 Yellow Special features Wash down Electrical data Operating voltage 1230 VDC DC rated operational current ≤ 150 mA Max. current consumption 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 %	Туре	K30APTGYCQ		
Purpose Pick-to-Light Function Touch Button Switch Function Momentary Features of color 1 Green, Permanently on Features of color 2 Yellow 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	ID	3082216		
Function Touch Button Switch Function Momentary Features of color 1 Green, Permanently on Features of color 2 Yellow 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	Signal and display data			
Switch Function Momentary Features of color 1 Green, Permanently on Features of color 2 Yellow 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	Purpose	Pick-to-Light		
Features of color 1 Green, Permanently on Features of color 2 Yellow 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	Function	Touch Button		
Features of color 2 Special features Wash down Electrical data Operating voltage 1230 VDC DC rated operational current ≤ 150 mA Max. current consumption per color Output function NO contact, PNP Input type PNP Response time typical 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	Switch Function	Momentary		
Special features Wash down Electrical data 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	Features of color 1	Green, Permanently on		
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	Features of color 2	Yellow		
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	Special features	Wash down		
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	Electrical data			
Max. current consumption per color Output function NO contact, PNP Input type PNP Response time typical 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	Operating voltage	1230 VDC		
Output function NO contact, PNP Input type PNP Response time typical < 150 ms	DC rated operational current	≤ 150 mA		
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	Max. current consumption per color	55 mA		
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	Output function	NO contact, PNP		
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	Input type	PNP		
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	Response time typical	< 150 ms		
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	Mechanical data			
Housing material Plastic, PC, Black Window material Polycarbonate, diffuse Electrical connection Connector, M12 × 1, PVC Number of cores 4 Ambient temperature -40+50 °C	Design	Dome, K50		
Window material Polycarbonate, diffuse Electrical connection Connector, M12 × 1, PVC Number of cores 4 Ambient temperature -40+50 °C	Dimensions	Ø 30 x 54.5 mm		
Electrical connection Connector, M12 × 1, PVC Number of cores 4 Ambient temperature -40+50 °C	Housing material	Plastic, PC, Black		
Number of cores 4 Ambient temperature -40+50 °C	Window material	Polycarbonate, diffuse		
Ambient temperature -40+50 °C	Electrical connection	Connector, M12 × 1, PVC		
<u> </u>	Number of cores	4		
Relative humidity 090 %	Ambient temperature	-40+50 °C		
	Relative humidity	090 %		

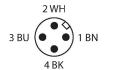


Features

- ■Protection class IP67
- Male M12 x 1, 4-pin
- Job light: green
- Mispick: not signalled
- ■Actuation: yellow
- ■Operating voltage 12...30 VDC
- ■PNP switching
- ■NO 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

Technical data

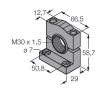
Protection class	IP67 IP69
Tests/approvals	
MTTF	146 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cULus listed

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 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

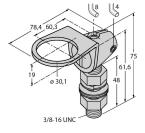
Accessories

SMB30A	3032723	SMB30SC	3052521
	Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread	Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable	





SMB30FA 3074005



Montagewinkel; Werkstoff VA 1.4401

Accessories

Dimension drawing	Туре	ID	
was a see Con-	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus





Dimension drawing

Type

WKC4.4T-2/TEL

6625025

Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval