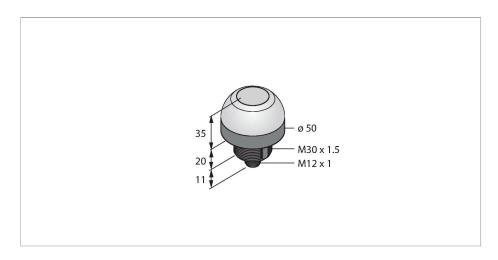


K50ABT2XGHQ Pick-to-Light – Placement Sensor Capacitive Sensor





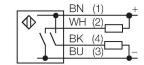
ID 3096731 Signal and display data Purpose Pick-to-Light Function Touch Button Light type Green LED service life (L70) 50000 h Switch Function Momentary Features of color 1 Green Features of color 2 Green, 29 Im Special features I/O module-compatible Wash down Electrical data Operating voltage 1230 VDC DC rated operational current ≤ 150 mA Max. current consumption per color 75 mA Output function NO contact, PNP/NPN 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	Туре	K50ABT2XGHQ		
Purpose Pick-to-Light Function Touch Button Light type Green LED service life (L70) 50000 h Switch Function Momentary Features of color 1 Green Features of color 2 Green, 29 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 NO contact, PNP/NPN 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	ID	3096731		
Function Light type Green LED service life (L70) Switch Function Momentary Features of color 1 Green Features of color 2 Green, 29 Im Special features I/O module-compatible Wash down Electrical data Operating voltage 1230 VDC DC rated operational current Max. current consumption per color Output function NO contact, PNP/NPN Input type PNP Response time typical Action Mechanical data Design Dome, K50 Dimensions Ø 50 x 66 mm Housing material Plastic, PC, Black Window material Electrical connection Connector, M12 × 1, PVC	Signal and display data			
Light type Green LED service life (L70) 50000 h Switch Function Momentary Features of color 1 Green Features of color 2 Green, 29 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 NO contact, PNP/NPN 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 x 1, PVC	Purpose	Pick-to-Light		
LED service life (L70) Switch Function Momentary Features of color 1 Green Features of color 2 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 NO contact, PNP/NPN Input type PNP Response time typical Mechanical data Design Dome, K50 Dimensions Ø 50 x 66 mm Housing material Plastic, PC, Black Window material Electrical connection Connector, M12 × 1, PVC	Function	Touch Button		
Switch Function Momentary Features of color 1 Green Features of color 2 Green, 29 Im 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 NO contact, PNP/NPN 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	Light type	Green		
Features of color 1 Features of color 2 Green, 29 Im Special features I/O module-compatible Wash down Electrical data Operating voltage DC rated operational current ≤ 150 mA Max. current consumption per color Output function NO contact, PNP/NPN Input type PNP Response time typical Mechanical data Design Dome, K50 Dimensions Ø 50 x 66 mm Housing material Polycarbonate, diffuse Electrical connection Green Green, 29 Im NO module-compatible Wash down 1230 VDC 5 mA NO contact, PNP/NPN PNP Response time typical S 50 ms Mechanical data Design Dome, K50 Dimensions Ø 50 x 66 mm Housing material Polycarbonate, diffuse	LED service life (L70)	50000 h		
Features of color 2 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 Output function NO contact, PNP/NPN Input type PNP Response time typical Nechanical data Design Dome, K50 Dimensions Ø 50 x 66 mm Housing material Polycarbonate, diffuse Electrical connection Green, 29 Im I/O module-compatible Wash down 1230 VDC 5 mA PomA **Output** **Output function NO contact, PNP/NPN PNP **Connector, M12 × 1, PVC	Switch Function	Momentary		
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 Output function NO contact, PNP/NPN 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	Features of color 1	Green		
Electrical data Operating voltage 1230 VDC DC rated operational current ≤ 150 mA Max. current consumption per color 75 mA Output function NO contact, PNP/NPN 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	Features of color 2	Green, 29 Im		
Operating voltage 1230 VDC DC rated operational current ≤ 150 mA Max. current consumption per color 75 mA Output function NO contact, PNP/NPN Input type PNP Response time typical < 50 ms	Special features	•		
DC rated operational current ≤ 150 mA Max. current consumption per color 75 mA Output function NO contact, PNP/NPN 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	Electrical data			
Max. current consumption per color75 mAOutput functionNO contact, PNP/NPNInput typePNPResponse time typical< 50 ms	Operating voltage	1230 VDC		
Output function NO contact, PNP/NPN Input type PNP Response time typical < 50 ms	DC rated operational current	≤ 150 mA		
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	Max. current consumption per color	75 mA		
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	Output function	NO contact, PNP/NPN		
Mechanical data Design Dome, K50 Dimensions Ø 50 x 66 mm Housing material Plastic, PC, Black Window material Polycarbonate, diffuse Electrical connection Connector, M12 x 1, PVC	Input type	PNP		
DesignDome, K50DimensionsØ 50 x 66 mmHousing materialPlastic, PC, BlackWindow materialPolycarbonate, diffuseElectrical connectionConnector, M12 x 1, PVC	Response time typical	< 50 ms		
Dimensions Ø 50 x 66 mm Housing material Plastic, PC, Black Window material Polycarbonate, diffuse Electrical connection Connector, M12 × 1, PVC	Mechanical data			
Housing material Plastic, PC, Black Window material Polycarbonate, diffuse Electrical connection Connector, M12 × 1, PVC	Design	Dome, K50		
Window material Polycarbonate, diffuse Electrical connection Connector, M12 × 1, PVC	Dimensions	Ø 50 x 66 mm		
Electrical connection Connector, M12 × 1, PVC	Housing material	Plastic, PC, Black		
	Window material	Polycarbonate, diffuse		
Number of cores 5	Electrical connection	Connector, M12 × 1, PVC		
	Number of cores	5		



Features

- Protection classes IP67/IP69K
- ■M12 × 1 male connector, 4-pin
- Disabled: No color
- Enabled: Green (COL 2)
- Operating voltage 10...30 VDC
- Bipolar circuit
- ■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. LED light is reflected perfectly by the entire dome. The device has two display colors depending on the version: Color 1 Shows the disabled state, color 2 the enabled state. Since the device has no inputs, a color change is exclusively realized by touching the sensor (enable). Devices with a hold function keep the enabled state, even when the contact ends.

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

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	Type	ID	
M12 x 1 e 15 25 14	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 26.5	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval