K50ALBT2GRHQ
Pick-to-Light – Placement Sensor
Capacitive Sensor
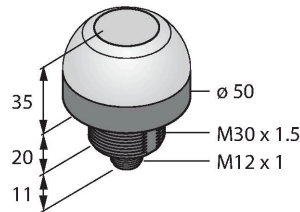


Technical data

Type	K50ALBT2GRHQ
ID	3802582
Signal and display data	
Purpose	Pick-to-Light
Function	Touch Button
Light type	Green Red
LED service life (L70)	50000 h
Switch Function	Latching
Features of color 1	Green, Permanently on, 29 lm
Features of color 2	Red, 13 lm
Special features	I/O module-compatible Wash down
Electrical data	
Operating voltage	12…30 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	< 150 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

- Protection classes IP67/IP69K
- M12 × 1 male connector, 8-pin
- Disabled: Green (COL 1)
- Enabled: Red (COL 2)
- Operating voltage 10…30 VDC
- Bipolar circuit
- NO contact
- Hold function
- Capacitive sensor of the second generation
- High immunity to false actuation by splashing, detergents, oils and other contaminants
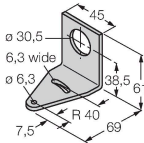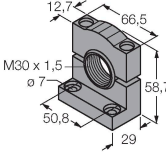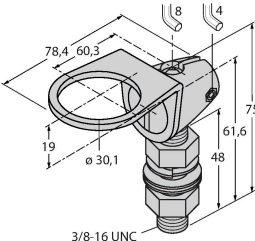
Wiring diagram
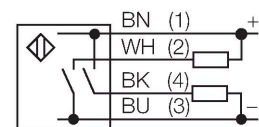
Functional principle

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

Number of cores	5
Ambient temperature	-40…+50 °C
Relative humidity	0…90 %
Protection class	IP67 IP69
Tests/approvals	
MTTF	146 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cULus listed

Accessories

SMB30A	3032723

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

SMB30SC	3052521

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

SMB30FA	3074005

Montagewinkel; Werkstoff VA 1.4401

Accessories

Dimension drawing	Type	ID	
	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval