

K50APT2WGBF2Q

Pick-to-Light – Placement Sensor

Capacitive Sensor



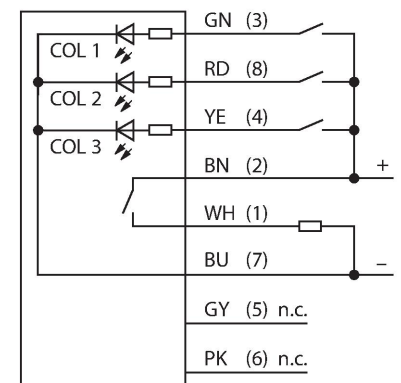
Technical data

Type	K50APT2WGBF2Q
ID	3800698
Signal and display data	
Purpose	Pick-to-Light
Function	Touch Button
Light type	White Green Blue
Switch Function	Momentary
Features of color 1	White, Permanently on
Features of color 2	Green, 29 lm
Features of color 3	Blue
Special features	Wash down
Electrical data	
Operating voltage U_B	12...30 VDC
DC rated operating current I_o	≤ 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

Features

- Protection classes IP67/IP69K
- M12 × 1 male connector, 8-pin
- Colors: White (COL 1), Green (COL 2), Blue (COL 3)
- PNP switching output, 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.

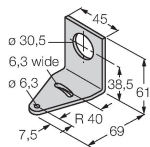
Technical data

Number of cores	8
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

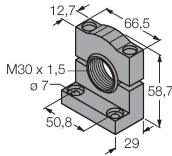
SMB30A3032723

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



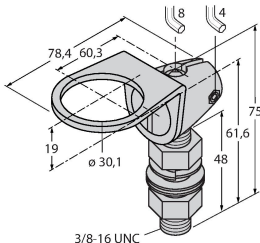
SMB30SC3052521

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



SMB30FA3074005

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