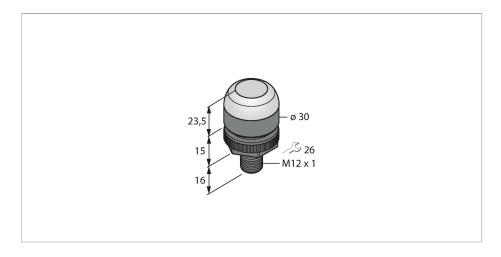


K30APT2XBF2Q Pick-to-Light - Placement Sensor Capacitive Sensor



Technical data

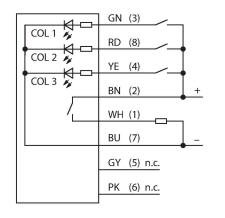
ID 3801697 Signal and display data Purpose Pick-to-Light Function Touch Button Light type Blue Switch Function Momentary Features of color 2 Blue, 1 Im Special features Wash down Electrical data Operating voltage U _B 1230 VDC DC rated operating current I _B ≤ 150 mA Max. current consumption per color 55 mA Output function NO contact, PNP Input type PNP Response time typical <150 ms Mechanical data Design Dome, K30 Dimensions Ø 30 x 54.5 mm Housing material Plastic, PC, Black Window material Polycarbonate, diffuse Electrical connection Connector, M12 x 1, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 090 %	Туре	K30APT2XBF2Q		
Purpose Pick-to-Light Function Touch Button Light type Blue Switch Function Momentary Features of color 2 Blue, 1 Im Special features Wash down Electrical data Operating voltage U₀ 1230 VDC DC rated operating current I₀ ≤ 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, K30 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	3801697		
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Switch Function Momentary Features of color 2 Blue, 1 Im Special features Wash down Electrical data	Function	Touch Button		
Features of color 2 Special features Wash down Electrical data Operating voltage U _B DC rated operating current I _B Max. current consumption per color Output function NO contact, PNP Input type PNP Response time typical Mechanical data Design Dome, K30 Dimensions Ø 30 x 54.5 mm Housing material Plastic, PC, Black Window material Electrical connection Connector, M12 × 1, PVC Number of cores 4 Ambient temperature	Light type	Blue		
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Electrical data Operating voltage U ₈ 1230 VDC DC rated operating current I ₆ Max. current consumption per color Output function NO contact, PNP Input type PNP Response time typical Mechanical data Design Dome, K30 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	Features of color 2	Blue, 1 Im		
Operating voltage U _B 1230 VDC DC rated operating current I _B ≤ 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 operating current I₀ ≤ 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, K30 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	Electrical data			
Max. current consumption per color Output function NO contact, PNP Input type PNP Response time typical Mechanical data Design Dome, K30 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 55 mA NO contact, PNP PNP Response time typical And 30 ms Polycarbonate Connector, M30 Connector, M12 × 1, PVC	Operating voltage U _B	1230 VDC		
Output function Input type PNP Response time typical Mechanical data Design Dome, K30 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	DC rated operating current I _e	≤ 150 mA		
Input type PNP Response time typical < 150 ms Mechanical data Design Dome, K30 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, K30 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 dataDesignDome, K30DimensionsØ 30 x 54.5 mmHousing materialPlastic, PC, BlackWindow materialPolycarbonate, diffuseElectrical connectionConnector, M12 x 1, PVCNumber of cores4Ambient temperature-40+50 °C	Input type	PNP		
Design Dome, K30 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, K30		
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		
·	Number of cores	4		
Relative humidity 090 %	Ambient temperature	-40+50 °C		
	Relative humidity	090 %		



Features

- Protection class IP67/IP69K
- ■M12 × 1 male connector, 8-pin
- Colors: No color (COL 1)/Blue (COL 2)
- ■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 K30 pick-and-place sensor is suitable for many assembly and placement sequences. The green work light or other signal lights are reflected perfectly by the entire dome (depending on the version). The transistor



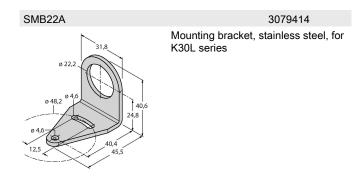
Technical data

Protection class	IP67 IP69
Tests/approvals	

Approvals	CE, cULus listed

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 K30 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



Accessories

Dimension drawing	Туре	ID	
M12x1 o 15 14	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
0 15 	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval