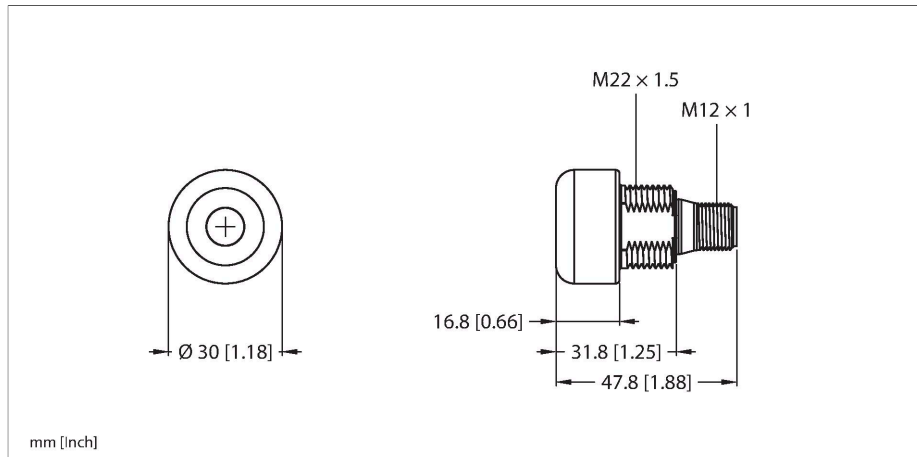


# K30PAF100AMRGB7Q

## Pick-to-Light – Placement Sensor

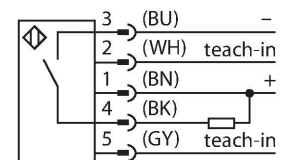
### Diffuse-Mode Sensor with Adjustable Background Suppression



#### Features

- RGB LED display with up to 14 different light colors
- Diffuse-mode sensor with adjustable background suppression
- Range: 20...100 mm
- Protection class IP67
- M12 connector, 8-pin
- Operating voltage 10...30 VDC
- Bipolar switching function — PNP/NPN
- Normally open contact NO
- Control of user-defined or predefined light colors
- Flashing function, alternation, 2-color display, intensity check and other animations
- Can be configured using Pro Editor, configurable I/O block compatibility

#### Wiring diagram



#### Functional principle

The K30 Pro Optical placement sensor is a multi-color indicator light with integrated optical sensor that is ideal for mounting applications. This device gives the user maximum flexibility in defining display colors, detection ranges and logic with the easy-to-use Pro Editor software. The K30 Pro Optical can be activated contact free. This prevents any contamination and eliminates unnecessary effort during operation. The sensor can detect objects from 20 mm to 1000 mm while providing clear user guidance. The

#### Technical data

Type	K30PAF100AMRGB7Q
ID	3814209
Signal and display data	
Purpose	Pick-to-Light
Function	Diffuse mode sensor with adjustable background suppression
Light type	RGB
Switch Function	Programmable
Dimmable	Programmable
Features of color 1	Green, Programmable, 5.8 lm
Features of color 2	Red, 3.2 lm
Features of color 3	Yellow, 7.9 lm
Features of color 4	Blue, 1.3 lm
Features of color 5	White, 8.8 lm
Features of color 6	Turquoise, 6.5 lm
Features of color 7	Light blue, 3.9 lm
Features of color 8	Orange
Features of color 9	Magenta
Features of color 10	Purple
Electrical data	
Operating voltage $U_B$	12...30 VDC
DC rated operating current $I_a$	≤ 150 mA
Communication protocol	BannerBus (Pro Editor compatible)
Output function	NO/NC (NO pre-set), PNP/NPN
Response time typical	< 300 ms

Technical data

Mechanical data	
Cascadable	No
Design	Cylinder, threaded, K30
Dimensions	Ø 30 x 47.8 mm
Housing material	Plastic, PC, Black
Window material	Polycarbonate, diffuse
Electrical connection	Connector, M12 × 1
Number of cores	8
Ambient temperature	-40...+70 °C
Protection class	IP67
Tests/approvals	
Approvals	CE, UL listed, UKCA

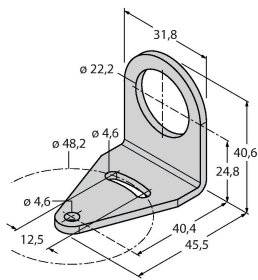
K30 Pro Optical features RGB LEDs with up to 14 different LED colors and a range of user-defined lighting animations. Pick-to-light devices improve efficiency and quality control in existing workflow systems and reduce the effort of testing.

Excess Gain Curve

	R	Y	G	T	B	M	W
COL1	×	×				×	×
COL2		×	×	×			×
COL3				×	×	×	×

Accessories

SMB22A	3079414
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Mounting bracket, stainless steel, for K30L series