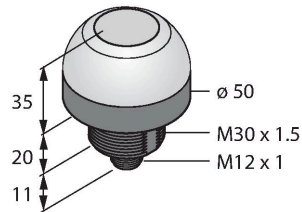


# K50APT2GYRF2Q

## Pick-to-Light – Placement Sensor

### Capacitive Sensor



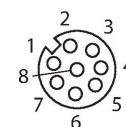
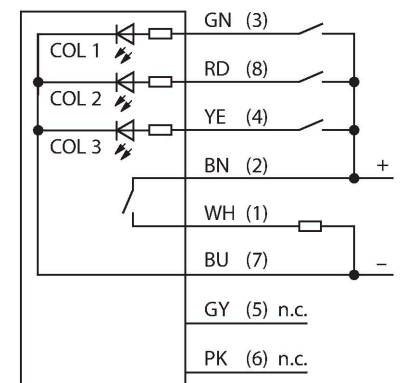
#### Technical data

|                                    |                              |
|------------------------------------|------------------------------|
| Type                               | K50APT2GYRF2Q                |
| ID                                 | 3097793                      |
| Signal and display data            |                              |
| Purpose                            | Pick-to-Light                |
| Function                           | Touch Button                 |
| Light type                         | Green<br>Yellow<br>Red       |
| Switch Function                    | Momentary                    |
| Features of color 1                | Green, Permanently on, 29 lm |
| Features of color 2                | Yellow, 24 lm                |
| Features of color 3                | Red, 13 lm                   |
| Special features                   | 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              |
| 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: Green (COL 1), Yellow (COL 2), Red (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

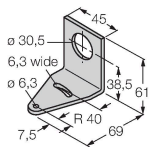
Technical data

|                     |                                           |
|---------------------|-------------------------------------------|
| Number of cores     | 8                                         |
| Ambient temperature | -40...+50 °C                              |
| Relative humidity   | 0...90 %                                  |
| Protection class    | IP67<br>IP69                              |
| Tests/approvals     |                                           |
| MTTF                | 146 years acc. to SN 29500 (Ed. 99) 40 °C |
| Approvals           | CE, cULus listed                          |

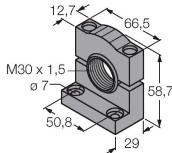
colors depending on the version: Color 1 Shows the disabled state, color 2 the enabled state. Since the device has no inputs, a color change is exclusively realized by touching the sensor (enable). Devices with a hold function keep the enabled state, even when the contact ends.

Accessories

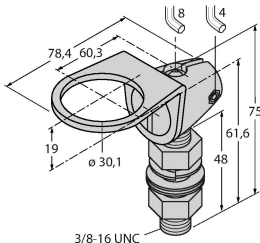
|                                                                              |         |
|------------------------------------------------------------------------------|---------|
| SMB30A                                                                       | 3032723 |
| Mounting bracket, rectangular, 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      |                                                                                                                         |
|-------------------|-------------|---------|-------------------------------------------------------------------------------------------------------------------------|
|                   | RKC8T-2/TEL | 6625130 | Connection cable, M12 female connector, straight, 8-pin, cable length: 2 m, jacket material: PVC, black; cULus approval |
|                   | WKC8T-2/TEL | 6625133 | Connection cable, M12 female connector, angled, 8-pin, cable length: 2 m, jacket material: PVC, black; cULus approval   |