

# K50ABT2VYHQ

## Pick-to-Light – Placement Sensor

### Capacitive Sensor



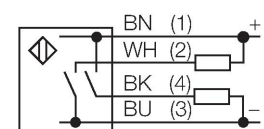
#### Technical data

|                                    |                                    |
|------------------------------------|------------------------------------|
| Type                               | K50ABT2VYHQ                        |
| ID                                 | 3805035                            |
| Signal and display data            |                                    |
| Purpose                            | Pick-to-Light                      |
| Function                           | Touch Button                       |
| Light type                         | Purple<br>Yellow                   |
| LED service life (L70)             | 50000 h                            |
| Switch Function                    | Momentary                          |
| Features of color 1                | Purple, Permanently on             |
| Features of color 2                | Yellow, 24 lm                      |
| Special features                   | I/O module-compatible<br>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              | < 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
- Disabled: Purple (COL 1)
- Enabled: Yellow (COL 2)
- Operating voltage 10...30 VDC
- Bipolar circuit
- NO contact
- Capacitive sensor of the second generation
- High immunity to false actuation by splashing, detergents, oils and other contaminants

#### Wiring diagram



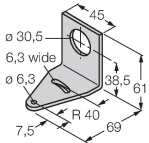
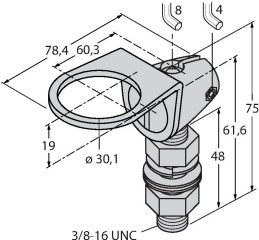
#### Functional principle

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.

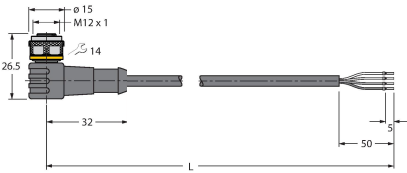
Technical data

|                     |                                           |
|---------------------|-------------------------------------------|
| Number of cores     | 5                                         |
| 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                          |

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   |