



1) Reference edge, 2) Sensing surface, 3) Function indicator FD/FE/LL



### Basic features

|                     |                                 |
|---------------------|---------------------------------|
| Approval/Conformity | CE<br>WEEE                      |
| Basic standard      | IEC 60947-5-2                   |
| Operating principle | 1-2. Switch position: Inductive |
| Version             | Inductive                       |

### Display/Operation

|                    |                                     |
|--------------------|-------------------------------------|
| Function indicator | 1-2. Switch position: Optical fiber |
|--------------------|-------------------------------------|

### Electrical connection

|                    |                                      |
|--------------------|--------------------------------------|
| Connection type    | 1-2. Switch position: Screw terminal |
| Electrical version | 3-/4-wire                            |

### Electrical data

|  |                               |
|--|-------------------------------|
| Continuous current                     | 1-2. Switch position: 0.13 A  |
| Rated operating voltage U <sub>e</sub> | 1-2. Switch position: 24 V DC |

### Environmental conditions

|                     |             |
|---------------------|-------------|
| Ambient temperature | -25...70 °C |
| Protection degree   | IP67        |

### Functional safety

|              |                       |
|--------------|-----------------------|
| MTTF (40 °C) | BES 517-142-Y: 1680 a |
|--------------|-----------------------|

### Material

|                                      |                    |
|--------------------------------------|--------------------|
| Housing material                     | Aluminum, Anodized |
| Housing material, surface protection | Anodized           |

### Mechanical data

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Dimension                           | 79 x 60 x 77.5 mm                   |
| Distance cam - active surface       | 1-2. Switch position: 0...4.05 mm   |
| Flange, feed-through                | 1 threaded exit M20                 |
| Installation                        | Vertical                            |
| Plunger spacing 1st switch position | 30 mm                               |
| Switching element                   | 1-2. Switch position: BES 517-142-Y |

### Output/Interface

|                  |                   |
|------------------|-------------------|
| Switching output | PNP complementary |
|------------------|-------------------|

### Range/Distance

|   |                              |
|---|------------------------------|
| Assured operating distance S <sub>a</sub> | 1-2. Switch position: 4 mm   |
| Range                                     | 5 mm                         |
| Rated operating distance S <sub>n</sub>   | 1-2. Switch position: 5.0 mm |
| Switch position spacing                   | 16 mm                        |

## Wiring Diagrams

