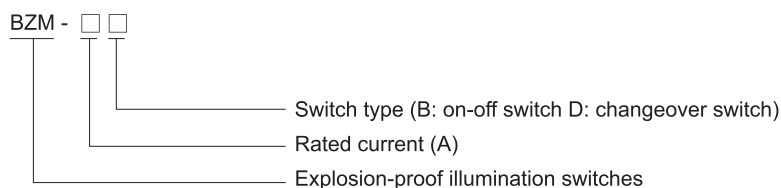


## Installation Switches BZM Series Explosion-proof Illumination Switches



- ◆ Explosion protection to
  - CENELEC
  - IEC
  - NEC
- ◆ Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
  - Class I, Zone 1 and Zone 2
  - Class I, Division 1, Groups A, B, C, D
- ◆ Copper-free aluminium enclosure, powder coated surface.
- ◆ Two options:
  - On-off switch
  - Changeover switch

### ■ Catalogue number logic



### Selection table

| Type/Ordering code | Chart of contact  | Corresponding switch | Weight (kg) |      |    |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
|--------------------|---|----------------------|-------------|------|----|---|--|--|----|-----|------|------|--|----|--|---|--|---|----|----|--|---|---|---|----|----|--|---|---|--|----|----|--|---|---|---|----|--|------|
| BZM-16B            | <table border="1"> <tr> <td></td> <td>0</td> <td>I</td> <td>0</td> <td>I</td> <td></td> </tr> <tr> <td></td> <td>0°</td> <td>90°</td> <td>180°</td> <td>270°</td> <td></td> </tr> <tr> <td>1o</td> <td></td> <td>x</td> <td></td> <td>x</td> <td>o2</td> </tr> <tr> <td>3o</td> <td></td> <td>x</td> <td></td> <td>x</td> <td>o4</td> </tr> <tr> <td>5o</td> <td></td> <td></td> <td>x</td> <td></td> <td>o6</td> </tr> <tr> <td>7o</td> <td></td> <td>x</td> <td></td> <td>x</td> <td>o8</td> </tr> </table> |                      | 0           | I    | 0  | I |  |  | 0° | 90° | 180° | 270° |  | 1o |  | x |  | x | o2 | 3o |  | x |   | x | o4 | 5o |  |   | x |  | o6 | 7o |  | x |   | x | o8 |  | 0.85 |
|                    | 0   | I                    | 0           | I    |    |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
|                    | 0°  | 90°                  | 180°        | 270° |    |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| 1o                 |   | x                    |             | x    | o2 |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| 3o                 |   | x                    |             | x    | o4 |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| 5o                 |   |                      | x           |      | o6 |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| 7o                 |   | x                    |             | x    | o8 |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| BZM-25B            | <table border="1"> <tr> <td></td> <td>0</td> <td>I</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>0°</td> <td>90°</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1o</td> <td></td> <td>x</td> <td></td> <td></td> <td>o2</td> </tr> <tr> <td>3o</td> <td></td> <td></td> <td>x</td> <td></td> <td>o4</td> </tr> <tr> <td>5o</td> <td></td> <td>x</td> <td></td> <td></td> <td>o6</td> </tr> <tr> <td>7o</td> <td></td> <td></td> <td>x</td> <td></td> <td>o8</td> </tr> </table>              |                      | 0           | I    |    |   |  |  | 0° | 90° |      |      |  | 1o |  | x |  |   | o2 | 3o |  |   | x |   | o4 | 5o |  | x |   |  | o6 | 7o |  |   | x |   | o8 |  | 0.95 |
|                    | 0   | I                    |             |      |    |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
|                    | 0°  | 90°                  |             |      |    |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| 1o                 |   | x                    |             |      | o2 |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| 3o                 |   |                      | x           |      | o4 |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| 5o                 |   | x                    |             |      | o6 |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| 7o                 |   |                      | x           |      | o8 |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| BZM-16D            | <table border="1"> <tr> <td></td> <td>0</td> <td>I</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>0°</td> <td>90°</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1o</td> <td></td> <td>x</td> <td></td> <td></td> <td>o2</td> </tr> <tr> <td>3o</td> <td></td> <td></td> <td>x</td> <td></td> <td>o4</td> </tr> <tr> <td>5o</td> <td></td> <td>x</td> <td></td> <td></td> <td>o6</td> </tr> <tr> <td>7o</td> <td></td> <td></td> <td>x</td> <td></td> <td>o8</td> </tr> </table>              |                      | 0           | I    |    |   |  |  | 0° | 90° |      |      |  | 1o |  | x |  |   | o2 | 3o |  |   | x |   | o4 | 5o |  | x |   |  | o6 | 7o |  |   | x |   | o8 |  | 0.85 |
|                    | 0   | I                    |             |      |    |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
|                    | 0°  | 90°                  |             |      |    |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| 1o                 |   | x                    |             |      | o2 |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| 3o                 |   |                      | x           |      | o4 |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| 5o                 |   | x                    |             |      | o6 |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| 7o                 |   |                      | x           |      | o8 |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| BZM-25D            | <table border="1"> <tr> <td></td> <td>0</td> <td>I</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>0°</td> <td>90°</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1o</td> <td></td> <td>x</td> <td></td> <td></td> <td>o2</td> </tr> <tr> <td>3o</td> <td></td> <td></td> <td>x</td> <td></td> <td>o4</td> </tr> <tr> <td>5o</td> <td></td> <td>x</td> <td></td> <td></td> <td>o6</td> </tr> <tr> <td>7o</td> <td></td> <td></td> <td>x</td> <td></td> <td>o8</td> </tr> </table>              |                      | 0           | I    |    |   |  |  | 0° | 90° |      |      |  | 1o |  | x |  |   | o2 | 3o |  |   | x |   | o4 | 5o |  | x |   |  | o6 | 7o |  |   | x |   | o8 |  | 0.95 |
|                    | 0   | I                    |             |      |    |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
|                    | 0°  | 90°                  |             |      |    |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| 1o                 |   | x                    |             |      | o2 |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| 3o                 |   |                      | x           |      | o4 |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| 5o                 |   | x                    |             |      | o6 |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |
| 7o                 |   |                      | x           |      | o8 |   |  |  |    |     |      |      |  |    |  |   |  |   |    |    |  |   |   |   |    |    |  |   |   |  |    |    |  |   |   |   |    |  |      |

# Zones 1&2; 21&22

## Installation Switches

### BZM Series Explosion-proof Illumination Switches

#### Technical data

#### Explosion-proof illumination switches BZM-□□

##### Explosion protection

Gas explosion protection

⊕ II 2 G Ex d IIC T6 Gb

Dust explosion protection

⊕ II 2 D Ex tb IIIC T80°C Db IP66

##### Certificates

LCIE 06 ATEX 6068; IECEx LCI 08. 0008; KZ.7500525.22.01.00370 (CU-TR)

##### Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-31

##### Enclosure material

Copper-free aluminium, powder coated surface

##### Enclosure colour

Window grey (RAL7040)

##### Switch function

On-off switch or changeover switch

##### Exposed fastener

Stainless steel

##### Rated voltage

Max. 250V AC

##### Rated current

16A, 25A

##### Degree of protection

IP66

##### Ambient temperature

-60°C~+60°C

##### Cable connection

3 x (2.5~4)mm<sup>2</sup>

##### Cable entries

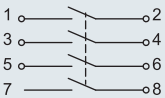

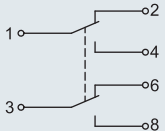

Standard 2 x M25 x 1.5 plugs

2 x G3/4" plugs or 2 x NPT3/4" plugs on request

##### Cable gland(optional)

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27.

#### Spare parts

| Built-in switch   | Rated voltage/current | Ordering code | Weight (kg) |
|---|-----------------------|---------------|-------------|
|   | 250V/16A              | 30001         | 0.10        |
|   | 250V/25A              | 30002         | 0.20        |
|   | 250V/16A              | 30003         | 0.10        |
|   | 250V/25A              | 30004         | 0.20        |

#### Dimension drawings (all dimensions in mm) - subject to alteration

