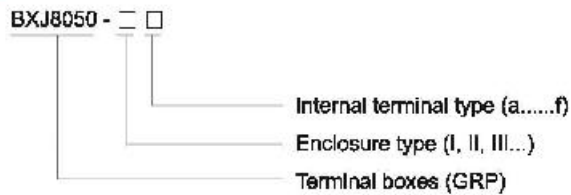


Terminal Boxes

BXJ8050 Series Terminal Boxes (Ex e)


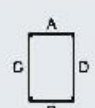
- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 1 and Zone 2
 - Class I, Division 2, Groups A, B, C, D
- ◆ GRP (glass fibre-reinforced polyester resin) enclosure.
- ◆ Weidmuller SAK EN series terminals.

■ Catalogue number logic



Zones 1&2; 21&22

| Technical data | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-----|-----|-----|-----|-----|------|---------------------|----|----|---|---|---|---|
| Terminal boxes (Ex e) | BXJ8050-□□ | | | | | | | | | | | | | | | | | | | | | |
| Explosion protection | | | | | | | | | | | | | | | | | | | | | | |
| Gas explosion protection | ⊕ II 2 G Ex e IIC T6 or T5 Gb ⊕ II 1 G Ex ia IIC T6 Ga | | | | | | | | | | | | | | | | | | | | | |
| Dust explosion protection | ⊕ II 2 D Ex tb IIIIC T80°C Db IP68 | | | | | | | | | | | | | | | | | | | | | |
| Certificates | LCIE 13 ATEX ____; IECEx | | | | | | | | | | | | | | | | | | | | | |
| Conformity to standards | EN 60079-0:2009, EN 60079-7:2007, EN 60079-11:2007 EN 60079-31:2009 IEC 60079-0:2011, IEC 60079-7:2006, IEC 60079-11:2006 IEC 60079-31:2008 | | | | | | | | | | | | | | | | | | | | | |
| Enclosure material | GRP (glass fibre-reinforced polyester resin) | | | | | | | | | | | | | | | | | | | | | |
| Terminal | Weidmuller SAK EN series Ex-mark: ⊕ II 2 GD Ex e II | | | | | | | | | | | | | | | | | | | | | |
| Exposed fastener | Stainless steel | | | | | | | | | | | | | | | | | | | | | |
| Rated voltage | Max. 690V AC | | | | | | | | | | | | | | | | | | | | | |
| Rated current | <table border="1"> <thead> <tr> <th>Cross section</th> <th>2.5mm²</th> <th>4mm²</th> <th>6mm²</th> <th>10mm²</th> <th>16mm²</th> <th>35mm²</th> </tr> </thead> <tbody> <tr> <td>Ex e Rated current</td> <td>24A</td> <td>32A</td> <td>41A</td> <td>57A</td> <td>76A</td> <td>125A</td> </tr> <tr> <td>Ex ia Rated current</td> <td>5A</td> <td>5A</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> | Cross section | 2.5mm ² | 4mm ² | 6mm ² | 10mm ² | 16mm ² | 35mm ² | Ex e Rated current | 24A | 32A | 41A | 57A | 76A | 125A | Ex ia Rated current | 5A | 5A | - | - | - | - |
| Cross section | 2.5mm ² | 4mm ² | 6mm ² | 10mm ² | 16mm ² | 35mm ² | | | | | | | | | | | | | | | | |
| Ex e Rated current | 24A | 32A | 41A | 57A | 76A | 125A | | | | | | | | | | | | | | | | |
| Ex ia Rated current | 5A | 5A | - | - | - | - | | | | | | | | | | | | | | | | |
| Degree of protection | IP66 | | | | | | | | | | | | | | | | | | | | | |
| Ambient temperature | For increased safety terminal box: T6 for Tamb: -40°C – +40°C; T5 for Tamb: -40°C – +55°C For intrinsic safety terminal box: T6 for Tamb: -40°C – +55°C | | | | | | | | | | | | | | | | | | | | | |
| Note | Ex e Rated current > 125A on request | | | | | | | | | | | | | | | | | | | | | |

| Cable entry table | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---|---|---|----|----|----|----|----|----|----|---|----|----|----|---------|---|---|---|---|---|---|----|----|----|----|---|---|----|----|---------|---|---|---|---|---|---|---|----|----|----|---|---|----|----|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Table of max. number of possible enclosure entries with cable glands DQM-I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th></th> <th colspan="2">I</th> <th colspan="2">II</th> <th colspan="2">III</th> <th colspan="2">IV</th> <th colspan="2">V</th> <th colspan="2">VI</th> <th colspan="2">VII</th> </tr> <tr> <th>Size</th> <th>A/B</th> <th>C/D</th> <th>A/B</th> <th>C/D</th> <th>A/B</th> <th>C/D</th> <th>A/B</th> <th>C/D</th> <th>A/B</th> <th>C/D</th> <th>A/B</th> <th>C/D</th> <th>A/B</th> <th>C/D</th> </tr> </thead> <tbody> <tr> <td>M16×1.5</td> <td>4</td> <td>4</td> <td>6</td> <td>10</td> <td>10</td> <td>12</td> <td>12</td> <td>18</td> <td>18</td> <td>18</td> <td>7</td> <td>12</td> <td>18</td> <td>36</td> </tr> <tr> <td>M20×1.5</td> <td>2</td> <td>2</td> <td>5</td> <td>8</td> <td>8</td> <td>8</td> <td>10</td> <td>12</td> <td>12</td> <td>12</td> <td>4</td> <td>8</td> <td>12</td> <td>24</td> </tr> <tr> <td>M25×1.5</td> <td>2</td> <td>2</td> <td>2</td> <td>4</td> <td>6</td> <td>6</td> <td>6</td> <td>10</td> <td>10</td> <td>10</td> <td>3</td> <td>4</td> <td>10</td> <td>18</td> </tr> <tr> <td>M32×1.5</td> <td>/</td> <td>/</td> <td>2</td> <td>3</td> <td>2</td> <td>2</td> <td>3</td> <td>5</td> <td>5</td> <td>5</td> <td>2</td> <td>3</td> <td>5</td> <td>8</td> </tr> <tr> <td>M40×1.5</td> <td>/</td> <td>/</td> <td>1</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>4</td> <td>4</td> <td>2</td> <td>1</td> <td>2</td> <td>4</td> <td>6</td> </tr> <tr> <td>M50×1.5</td> <td>/</td> <td>/</td> <td>/</td> <td>/</td> <td>/</td> <td>/</td> <td>2</td> <td>3</td> <td>3</td> <td>/</td> <td>/</td> <td>/</td> <td>3</td> <td>6</td> </tr> </tbody> </table> | | I | | II | | III | | IV | | V | | VI | | VII | | Size | A/B | C/D | A/B | C/D | A/B | C/D | A/B | C/D | A/B | C/D | A/B | C/D | A/B | C/D | M16×1.5 | 4 | 4 | 6 | 10 | 10 | 12 | 12 | 18 | 18 | 18 | 7 | 12 | 18 | 36 | M20×1.5 | 2 | 2 | 5 | 8 | 8 | 8 | 10 | 12 | 12 | 12 | 4 | 8 | 12 | 24 | M25×1.5 | 2 | 2 | 2 | 4 | 6 | 6 | 6 | 10 | 10 | 10 | 3 | 4 | 10 | 18 | M32×1.5 | / | / | 2 | 3 | 2 | 2 | 3 | 5 | 5 | 5 | 2 | 3 | 5 | 8 | M40×1.5 | / | / | 1 | 2 | 2 | 2 | 2 | 4 | 4 | 2 | 1 | 2 | 4 | 6 | M50×1.5 | / | / | / | / | / | / | 2 | 3 | 3 | / | / | / | 3 |
| | I | | II | | III | | IV | | V | | VI | | VII | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Size | A/B | C/D | A/B | C/D | A/B | C/D | A/B | C/D | A/B | C/D | A/B | C/D | A/B | C/D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16×1.5 | 4 | 4 | 6 | 10 | 10 | 12 | 12 | 18 | 18 | 18 | 7 | 12 | 18 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M20×1.5 | 2 | 2 | 5 | 8 | 8 | 8 | 10 | 12 | 12 | 12 | 4 | 8 | 12 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M25×1.5 | 2 | 2 | 2 | 4 | 6 | 6 | 6 | 10 | 10 | 10 | 3 | 4 | 10 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M32×1.5 | / | / | 2 | 3 | 2 | 2 | 3 | 5 | 5 | 5 | 2 | 3 | 5 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M40×1.5 | / | / | 1 | 2 | 2 | 2 | 2 | 4 | 4 | 2 | 1 | 2 | 4 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M50×1.5 | / | / | / | / | / | / | 2 | 3 | 3 | / | / | / | 3 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: 1. No cable entries for standard design. Cable entries shall be drilled by user. 2. For cable entries: 1) Please specify the direction and size of each cable entry. 2) Cable gland is optional, DQM-I (Ex e) is recommended. Please see P7/16. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

