



## SB2, SB3 Safety Barriers

AlgoRex  
Synova™  
Sinteso™  
Cerberus® PRO



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### • For applications with Ex detectors

- Safety barrier SB2 for direct connection to the collective detection line insert E3M080
- Safety diode barrier SB3 with input/output module DC1192/FDCIO223/FDCI223/FDCI723

If fire detectors have to be installed in explosion-hazard areas, the wiring and equipment must comply with the local national safety regulations. Normally, fire detector circuits require very little current and for this application, the explosion protection category 'Intrinsic safety' Ex i is suitable. The standards which cover this are EN 50014 (EN 60079-0) and EN 50020 (EN 60079-11).

A safety barrier restricts the electrical energy between non-intrinsically safe and intrinsically safe circuits.

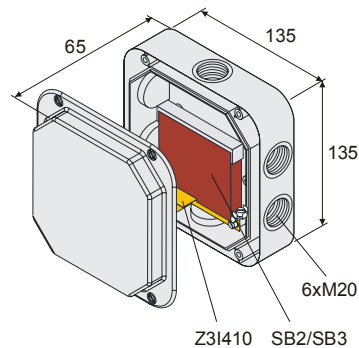
Safety barriers are designed to restrict electrical power to such a degree that electrical sparks cannot ignite a gas mixture. Safety barriers SB2 and SB3 are approved for explosion protection category [Ex ia] IIC/IIB. Only electrical equipment which complies with the local national regulations and intrinsically safe protection category Ex ia or ib may be connected to the output of the safety barriers.

## Characteristics

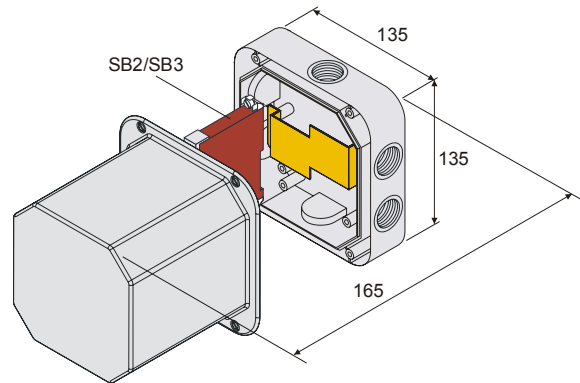
- One SB2 or SB3 safety barrier may be mounted together with installation set Z3I410 in housing DCA1191 with protection category IP56.
- A maximum of two SB2 or SB3 safety barriers may be mounted in housing DCA1191-AB.
- Wiring and installation material, protective distances and the necessary marking in explosion-hazard areas must comply with the local national regulations.
- The end-of-line unit must be specially designed for the control unit in question and must comply with explosion-hazard regulations.
- Always install safety barriers outside explosion-hazard areas.

## Dimensions

**DCA1191 and Z3I410 and SB2 or SB3**



**DCA1191-AB incl. support plate and max. 2 SB2 or SB3**



Further details can be found in the document

- 'Fire protection in explosion-hazard areas', no. 1204

## Details for ordering

| Type       | Part no        | Designation                                                              | Weight   |
|------------|----------------|--------------------------------------------------------------------------|----------|
| DCA1191    | BPZ:4588560001 | Housing with cover flat                                                  | 0.265 kg |
| DCA1191-AB | BPZ:5463150001 | Housing with cover deep, incl. support plate                             | 0.340 kg |
| Z3I410     | BPZ:4837660001 | Installation set for SB2 / SB3 in DCA1191                                | 0.050 kg |
| SB2        | BPZ:4717230001 | Safety barrier<br>Type: Stahl (9002/13-280-93-001)                       | 0.125 kg |
| SB3        | BPZ:4837400001 | Safety barrier<br>Type: Stahl (9001/00-280-100-101)                      | 0.115 kg |
| EOL22(Ex)  | BPZ:5162220001 | Line termination Ex for E3M080/SB2 and DC1192/SB3 (included with DC1192) | 0.005 kg |
| –          | A5Q00004478    | Screwed cable gland M20 x 1.5                                            | 0.039 kg |
| –          | BPZ:4995690001 | Fuse for SB2 / SB3                                                       | 0.001 kg |

Spare part

|                                                                                                                                                                                                                |            |                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 06                                                                                                                            | <b>SB3</b> | R. Stahl Schaltgeräte GmbH; Am Bahnhof 30<br>D-74638 Waldenburg<br><a href="http://www.stahl.de">www.stahl.de</a> , 9001_9002_9004_SafetyBarriers_Introduction_AK00_III_en |
| SB3 - Safety barriere Typ 9001 for use in fire detection and fire alarm systems installed in buildings.                                                                                                        |            |                                                                                                                                                                            |
| 2014/30/EU (EMC): EN 61326-1 ; 2011/65/EU (RoHS): EN 50581 ;<br>2014/34/EU (ATEX): EN 60079-0 / EN 60079-11 / EN 60079-15                                                                                      |            |                                                                                                                                                                            |
| The declared performance and conformity can be seen in the Declaration of Performance (DoP) and the EU Declaration of Conformity (DoC), which is obtainable via <a href="http://www.stahl.de">www.stahl.de</a> |            |                                                                                                                                                                            |
| DoP No.: n/a; DoC No.: CED-SB3                                                                                                                                                                                 |            |                                                                                                                                                                            |

## Disposal



The device is considered an electronic device for disposal in accordance with the European Guidelines and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

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