

SB2, SB3

AlgoRex

Shunt Zener Diode Barriers



- **For applications with collective line evaluation**

- Shunt Zener diode barrier SB2 for direct connection to the collective CS11 detection line (E3M080 module)
 - Shunt Zener diode barrier SB3 with input/output module DC1192 for all collective, AnalogPLUS and interactive line evaluations
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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" EEx i is suitable. The standards which cover this are EN50014 (IEC60079-0) and EN 50020 (IEC60079-11).

A shunt Zener diode barrier restricts the electrical energy between non-intrinsically safe and intrinsically safe circuits.

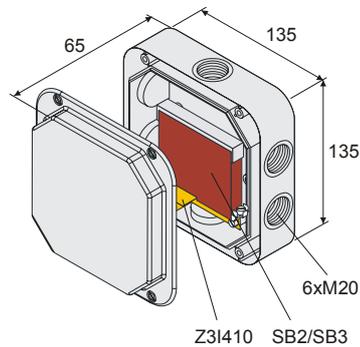
Shunt Zener diode barriers are designed to restrict electrical power to such a degree that electrical sparks cannot ignite a gas mixture. Shunt Zener diode barriers SB2 and SB3 are approved for explosion protection category [EEx ia] IIC/IIB. Only electrical equipment which complies with the local national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

Characteristics

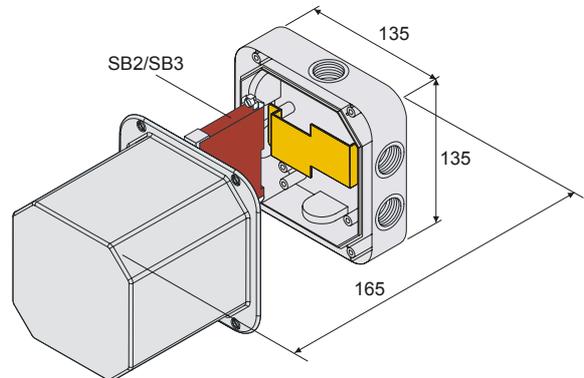
- One SB2 or SB3 shunt Zener diode barriers may be mounted together with installation set Z3I410 in housing DCA1191 with protection category IP56.
- A maximum of two SB2 or SB3 shunt Zener diode barriers may be mounted in housing DCA1191-AB.
- Wiring and installation material, protective distances and 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 shunt Zener diode 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	4588560001	Housing with cover flat	0.265 kg
DCA1191-AB	5463150001	Housing with cover deep, incl. support plate	0.340 kg
Z3I410	4837660001	Installation set for SB2 / SB3 in DCA1191	0.050 kg
SB2	4717230001	Shunt Zener diode barrier Type: Stahl (9002/13-280-93-001)	0.125 kg
SB3	4837400001	Shunt Zener diode barrier Type: Stahl (9001/00-280-100-101)	0.115 kg
EOL22(Ex)	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
-	4995690001	Fuse for SB2 / SB3	0.001 kg

Spare part

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