### Features
- 4...12 outputs Ex ic (FISCO or Entity)
- Glass fiber reinforced polyester, impact resistant, IP66
- Configurable cable entries for trunk and spurs
- International approvals
- For FOUNDATION Fieldbus H1 and PROFIBUS PA
- Installation in Zone 2

### Assembly

This Segment Protector Junction Box is a device coupler with FieldConnex® Segment Protectors for Zone 2. Devices can be located in Zone 2. The number of outputs and size can be selected.

Glass fiber-reinforced polyester provides corrosion resistance and is lightweight. The surface resistance avoids electrostatic charge.

Trunk and spur entries can be selected individually from a range of cable glands and stopping plugs. A breather is included by default. Tag plate, grounding bar, surge protection for the trunk, and bus termination are available as options.

This junction box is available pre-wired, with all accessories, for fast ordering, delivery, site installation, and commissioning.

### Connection

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".
Technical data

## General specifications

- **Design / Mounting**: Outside installation
- **Installed components**: Segment Protector R2-SP-IC*
  
  For technical data on installed electronic component see data sheet.

## Conformity

- **Degree of protection**: EN 60529
- **Impact resistance**: EN 60079-0

## Ambient conditions

- **Ambient temperature**: -30 ... 55 °C (-22 ... 131 °F) , (extended temperature range available on request)
- **Storage temperature**: -40 ... 70 °C (-40 ... 158 °F)
- **Relative humidity**: < 75 % (annual mean)  
  < 95 % (30 d/year), no moisture condensation

## Mechanical specifications

- **Enclosure cover**: detachable cover with retaining screws
- **Degree of protection**: IP66
- **Cable entry**: cable gland and stopping plug options see separate table

### Material

- **Housing**: polyester , impact resistant, glass fiber reinforced
- **Surface**: black molded finish (RAL 9005)
- **Surface resistance**: < $10^8$ Ω
- **Water absorption**: < 6 %
- **Seal**: silicone , one-piece
- **Grounding plate**: brass
- **Material thickness**: grounding plate: 3 mm

### Dimensions

- **W x H x D**: 271 mm x 271 mm x 136 mm (1 x R2-SP-IC*),  
  544 mm x 271 mm x 136 mm (2 x R2-SP-IC*)
- **Mounting**: thru-holes Ø6.5 mm
- **Grounding**: grounding bolt M6 , Stainless steel

### Data for application in connection with hazardous areas

- **Certificate**: PF 16 CERT 3134 X (assembled Junction Box) , for additional certificates see www.pepperl-fuchs.com
- **Marking**: II 3G Ex nA [ic] IIIC T4 Gc  
  II 3D Ex tc [ic] IIIC T135°C Dc

### Directive conformity

- **International approvals**: IECEx approval IECEx PTB 09.0016 , suitable Junction Box on request

### General information

- **Supplementary information**: Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.

## Cable Gland Versions

<table>
<thead>
<tr>
<th>Type</th>
<th>Cable gland</th>
<th>GP2</th>
<th>GB2</th>
<th>GS2</th>
<th>GN2</th>
<th>GA2</th>
<th>Stopping plug</th>
<th>H02</th>
<th>H03</th>
<th>H04</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mechanical specifications</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td></td>
<td>polyamide</td>
<td>nickel-plated brass</td>
<td>stainless steel</td>
<td>nickel plated brass</td>
<td>stainless steel</td>
<td>polyamide</td>
<td>nickel-plated brass</td>
<td>stainless steel</td>
<td></td>
</tr>
<tr>
<td><strong>Thread</strong></td>
<td></td>
<td>M20</td>
<td>M20</td>
<td>M20</td>
<td>M20</td>
<td>M20</td>
<td>M20</td>
<td>M20</td>
<td>M20</td>
<td>M20</td>
</tr>
<tr>
<td><strong>Inner sheath (mm)</strong></td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>6 ... 11</td>
<td>6 ... 11</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Outer sheath (mm)</strong></td>
<td></td>
<td>6 ... 12</td>
<td>4 ... 12</td>
<td>4 ... 12</td>
<td>8 ... 15</td>
<td>8 ... 15</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Cable</strong></td>
<td></td>
<td>Suitable for armored cable: no</td>
<td>no</td>
<td>no</td>
<td>yes</td>
<td>yes</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

### Data for application with hazardous areas

- **Type of protection** | Ex e | Ex de | Ex de | Ex de | Ex de | Ex e | Ex de | Ex de |

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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pa-info@sge.pepperl-fuchs.com
### Technical data

**Type Code/Model Number**

**Electronic type**
- F.SP5  Enclosure solution for R2-SP-IC**

**Enclosure material**
- P  Glass-fiber reinforced polyester, IP66

**Number of installed devices**
- 12.B04  1 x R2-SP-IC4
- 12.B06  1 x R2-SP-IC6
- 12.B08  1 x R2-SP-IC8
- 12.B10  1 x R2-SP-IC10
- 12.B12  1 x R2-SP-IC12
- 20.B16  2 x R2-SP-IC8
- 20.B20  2 x R2-SP-IC10
- 20.B24  2 x R2-SP-IC12

**Fieldbus type**
- 1  Suitable for FOUNDATION Fieldbus H1 and PROFIBUS PA

**Terminals**
- 0  Screw terminals
- 3  Spring terminals

**Trunk entries**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H02</td>
<td>Stopping plug M20, polyamide, Ex e, IP66</td>
</tr>
<tr>
<td>H03</td>
<td>Stopping plug M20, nickel plated brass, Ex e, IP66</td>
</tr>
<tr>
<td>H04</td>
<td>Stopping plug M20, stainless steel, Ex e, IP66</td>
</tr>
<tr>
<td>GP2</td>
<td>Cable gland M20, polyamide, Ex de, IP66</td>
</tr>
<tr>
<td>GP2</td>
<td>Cable gland M20, nickel plated brass, Ex de, IP66</td>
</tr>
<tr>
<td>GS2</td>
<td>Cable gland M20, stainless steel, Ex e, IP66</td>
</tr>
<tr>
<td>GN2</td>
<td>Cable gland M20, nickel plated brass, Ex de, IP66, for armoured cables</td>
</tr>
<tr>
<td>GA2</td>
<td>Cable gland M20, stainless steel, Ex de, IP66,  for armoured cables</td>
</tr>
</tbody>
</table>

**Tag plate**
- D  Stainless steel, 95 x 20 mm
- C  Plastic, 95 x 20 mm
- 0  No tag plate

**Grounding bar**
- 2  Grounding bar, isolated
- 1  Grounding bar, connected to PA
- 0  No grounding bar

**Surge protection**
- D  Surge protection trunk with diagnostics (TCP-LBF-IA1.36.IE.1) and spurs with diagnostics (SCP-LBF-IA1.36.IE.1)
- C  Surge protection trunk with diagnostics (TCP-LBF-IA1.36.IE.0) and spurs with diagnostics (SCP-LBF-IA1.36.IE.1)
- B  Surge protection trunk with diagnostics (TCP-LBF-IA1.36.IE.1) and spurs (SCP-LBF-IA1.36.IE.0)
- 9  Surge protection trunk (TCP-LBF-IA1.36.IE.0) and spurs (SCP-LBF-IA1.36.IE.0)
- 7  Surge protection spurs with diagnostics (SCP-LBF-IA1.36.IE.1)
- 6  Surge protection trunk with diagnostics (TCP-LBF-IA1.36.IE.1)
- 5  Surge protection spurs (SCP-LBF-IA1.36.IE.0)
- 4  Surge protection trunk (TCP-LBF-IA1.36.IE.0)
- 0  No surge protection

**Additional accessories**
- 5  Enclosure leakage sensor (ELS-1) + document pocket (A4)
- D  Document pocket (A4)
- L  Enclosure leakage sensor (ELS-1)
- 0  No accessory

Predefined characters indicate pre-set attributes.