

## FBCON SS CG 1WAY

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



For standard industrial applications (non-hazardous areas), PROFIBUS PA junction boxes and limiters are available as 1-way, 2-way, 4-way, and 8-way distributors. FBCon limiters are designed to protect connected field devices from over voltages and short circuits. As voltage-limiting protective elements, suppressor diodes are used. Due to the integrated current limitation, the segment is also protected against short circuit on a spur line. EMC cable glands, protection class IP66 and a wide operating temperature range safely protect your connections in harsh environments.

### Functionality

- EMC cable glands for trunk and spurs
- M12 connector for spurs
- External earthing stud
- Pressure equalizing element
- Protection class IP66
- Aluminium and stainless-steel versions
- Profibus PA / Foundation Fieldbus compatible

Note: The use of FBCon products with aluminum enclosures and / or M12 connectors is not recommended in strongly saline environments.

### General ordering data

|            |  |
|------------|--|
| Version    | Standard distributor with bus termination (active), 1-way distributor, IP65, IP66, Round |
| Order No.  | <a href="#">8703430000</a>   |
| Type       | FBCON SS CG 1WAY   |
| GTIN (EAN) | 4032248398348  |
| Qty.       | 1 pc(s).   |

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## Technical data

### Dimensions and weights

|            |       |                 |            |
|------------|-------|-----------------|------------|
| Height     | 36 mm | Height (inches) | 1.417 inch |
| Width      | 58 mm | Width (inches)  | 2.283 inch |
| Net weight | 451 g |                 |            |

### Temperatures

|                       |                |                     |                           |
|-----------------------|----------------|---------------------|---------------------------|
| Storage temperature   | -40 °C...80 °C | Ambient temperature | -40 °C...80 °C            |
| Operating temperature | -40 °C...80 °C | Humidity            | 5...95 %, no condensation |

### Probability of failure

|                                  |      |
|----------------------------------|------|
| SIL in compliance with IEC 61508 | None |
|----------------------------------|------|

### Connection data

|                      |                   |                      |                   |
|----------------------|-------------------|----------------------|-------------------|
| Clamping range, min. | 4 mm <sup>2</sup> | Clamping range, max. | 6 mm <sup>2</sup> |
|----------------------|-------------------|----------------------|-------------------|

### Technical data

|                      |   |   |  |
|----------------------|---|---|--|
| Bus system           | Profibus-PA, Foundation<br>Fieldbus     | Cable entry                               | Round                                    |
| Cable glands         | Stainless steel cable gland             | Conductor O.D., max.                      | 9.5 mm                                   |
| Conductor O.D., min. | 6.5 mm                                  | Connection type PE                        | Spur line with cable gland               |
| Design of housing    | With pressure compensa-<br>tion element | Housing main material                     | Stainless steel, rust-proof,<br>Aluminum |
| Housing surface      | polished                                | Number of poles                           | 3  |
| Operating voltage    | 10 ... 31 V DC, 30 V UC                 | Operating voltage U <sub>max</sub> , max. | 30 V DC                                  |
| Pollution severity   | 3                                       | Protection degree                         | IP65, IP66                               |
| Type of distribution | 1-way distributor                       | Type of mounting                          | surface-mounted                          |

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001604    | ETIM 7.0    | EC001604    |
| ETIM 8.0    | EC001604    | ETIM 9.0    | EC001604    |
| ETIM 10.0   | EC001604    | ECLASS 9.0  | 27-24-26-08 |
| ECLASS 9.1  | 27-24-26-08 | ECLASS 10.0 | 27-24-26-08 |
| ECLASS 11.0 | 27-24-26-08 | ECLASS 12.0 | 27-44-01-11 |
| ECLASS 13.0 | 27-44-01-11 | ECLASS 14.0 | 27-44-01-11 |
| ECLASS 15.0 | 27-44-01-11 |             |             |

### Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c, 7cl                              |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 3a5f5913-76fc-4ff5-8563-4463f80bbe02 |

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**Technical data****Approvals**

Approvals



|                         |   |
|-------------------------|---|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/</a> |
| ROHS                    | Conform   |
| UL File Number Search   | UL Website  |
| Certificate no. (cULus) | E141197   |

**Downloads**

|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">Certification UL for Canada</a><br><a href="#">Certification UL for US</a>   |
| Engineering Data                            | <a href="#">CAD data – STEP</a>  |
| Product Change Notification                 | <a href="#">20220208 Technical change to FBCon field distributors (passive, with stainless steel housings)</a>   |
| Software                                    | <a href="#">WI-Segment-Calculator</a>  |
| User Documentation                          | <a href="#">Application-Guide-Planning and installing Fieldbus networks-using-FBCon_english_deutsch</a><br><a href="#">FBCon Segment Calculator_english</a><br><a href="#">Instruction sheet</a> |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>   |
| Brochures                                   |  |

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**Drawings**

