

## FBCON SS PCG 8WAY LIMITER

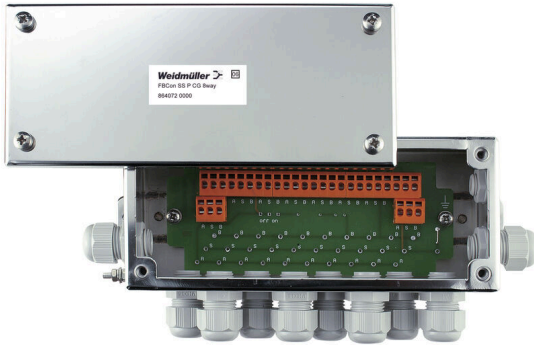
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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 current limiting, 8-channel distributor LIMITER, IP66, IP67, Branch line M12, Round |
| Order No.  | <a href="#">2653690000</a>  |
| Type       | FBCON SS PCG 8WAY LIMITER   |
| GTIN (EAN) | 4064675267232   |
| Qty.       | 1 items   |

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## Technical data

### Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E141197

### Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 86.5 mm | Depth (inches)  | 3.4055 inch |
| Height     | 77 mm   | Height (inches) | 3.0315 inch |
| Width      | 204 mm  | Width (inches)  | 8.0315 inch |
| Net weight | 1077 g  |                 |             |

### Temperatures

|                     |                           |                       |                |
|---------------------|---------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...80 °C            | Operating temperature | -40 °C...75 °C |
| Humidity            | 5...95 %, no condensation |                       |                |

### Probability of failure

SIL in compliance with IEC 61508 None

### Environmental Product Compliance

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

### Connection data

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

### Technical data

|                                   |  |                      |                                     |
|-----------------------------------|--|----------------------|-------------------------------------|
| Number of poles                   | 3  | Cable glands         | Plastic screwed cable gland         |
| Type of distribution              | 8-channel distributor<br>LIMITER         | Design of housing    | With pressure compensation element  |
| Housing main material             | Stainless steel, rust-proof,<br>Aluminum | Cable entry          | Branch line M12, Round              |
| Conductor O.D., max.              | 9.5 mm                                   | Conductor O.D., min. | 6.5 mm                              |
| Type of mounting                  | surface-mounted                          | Protection degree    | IP66, IP67                          |
| Pollution severity                | 3  | Bus system           | Profibus-PA, Foundation<br>Fieldbus |
| Current limiting                  | adjustable, 20 mA, 40 mA,<br>60 mA       | Operating voltage    | 30 V                                |
| Power consumption in standby mode | 7 mA                                     | Housing surface      | polished                            |

### Part description

**Product description** The device is an active field distributor for the fieldbus systems Profibus PA and Foundation Fieldbus H1. The device complies with protection class IP66/IP67. Functional description The device connects up to eight field devices with one fieldbus segment. An adjustable current

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monitoring per spur line protects the trunk line from short circuits or overload (see figure B1). Suppressor diodes protect the connected field devices from surge voltages. A red LED indicates a short circuit or overload on the spur line. A green LED indicates sufficient voltage supply on the trunk line.. The device supports earthing concepts with multi-point screen earthing or single-point screen earthing. The earthing concepts are explained in the Profibus PA and Foundation Fieldbus guidelines.

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC001604    | ETIM 9.0    | EC001604    |
| ETIM 10.0   | EC001604    | ECLASS 14.0 | 27-44-01-11 |
| ECLASS 15.0 | 27-44-01-11 |             |             |

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Drawings

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