

## FBCON PA CG 6WAY LIMITER R-TS

Weidmüller Interface GmbH & Co. KG  
Klingenbergsstraße 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, 6-channel distributor LIMITER, IP66, IP67, Trunk line M20, Round |
| Order No.  | <a href="#">2703870000</a>   |
| Type       | FBCON PA CG 6WAY LIMITER R-TS  |
| GTIN (EAN) | 4064675266662  |
| Qty.       | 1 items  |

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## Technical data

## Approvals

Approvals



|                         |                            |
|-------------------------|----------------------------|
| ROHS                    | Conform                    |
| UL File Number Search   | <a href="#">UL Website</a> |
| Certificate no. (cULus) | E141197                    |

## Dimensions and weights

|            |        |                 |             |
|------------|--------|-----------------|-------------|
| Depth      | 34 mm  | Depth (inches)  | 1.3386 inch |
| Height     | 34 mm  | Height (inches) | 1.3386 inch |
| Width      | 175 mm | Width (inches)  | 6.8898 inch |
| Net weight | 660 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) | 6bl, 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         | Brass cable gland                     |
| Type of distribution              | 6-channel distributor<br>LIMITER   | Design of housing    | With pressure<br>compensation element |
| Housing main material             | Aluminium, Aluminum                | Cable entry          | Trunk line M20, 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 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. The M20 cable glands |
|---------------------|---|

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**Technical data**

of the trunk line have two sealing levels for armoured cables. The armouring can consist of steel wire (SWA, Steel Wiring Armouring), steel tape (STA, Steel Tape Armouring) or steel wire braiding (SWB, Steel Wire Braiding). Non-armoured cables can be connected as spur lines. The device FBCon \* R-T has M16 cable glands for the spur lines. The device FBCon \* R-TS has M20 cable glands for the spurs. Stainless-steel screw inserts integrated into the cover gland allow the device to be used in saline atmospheres. 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

