Data sheet

FBCON PA CG 8WAY LIMITER R-T

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
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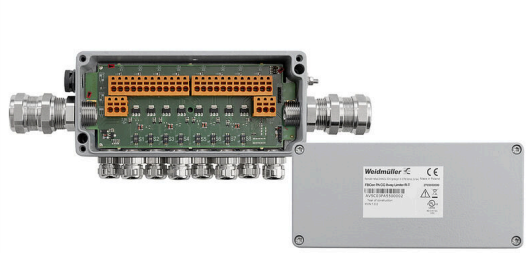
Germany

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 current limiting, 8-channel distributor LIMITER, IP66, IP67, Trunk line M20, Branch line M16, Round
Order No.	2703850000
Type	FBCON PA CG 8WAY LIMITER R-T
GTIN (EAN)	4064675266648
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	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	1077 g		

Temperatures

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

Probability of failure

Safety integrity level (SIL) in compliance with IEC 61508	None

Environmental Product Compliance

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

Connection data

Clamping range, min.	4 mm²	Clamping range, max.	6 mm²

Technical data

Number of poles	3	Cable glands	Brass cable gland
Type of distribution	8-channel distributor LIMITER	Design of housing	With pressure compensation element
Housing main material	Aluminium, Aluminum	Cable entry	Trunk line M20, Branch line M16, 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 Fieldbus
Current limiting	adjustable, 20 mA, 40 mA, 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. The M20 cable glands 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

