

FBCON PA CG 3WAY LIMITER R-TS

Weidmüller Interface GmbH & Co. KG
Klingenbergsstraße 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 current limiting, 3-channel distributor LIMITER, IP66, IP67, Trunk line M20, Round
Order No.	2703860000
Type	FBCON PA CG 3WAY LIMITER R-TS
GTIN (EAN)	4064675266655
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	125 mm	Width (inches)	4.9212 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
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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 ²	Clamping range, max.	6 mm ²
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Technical data

Number of poles	3	Cable glands	Brass cable gland
Type of distribution	3-channel distributor LIMITER	Design of housing	With pressure 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 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 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.

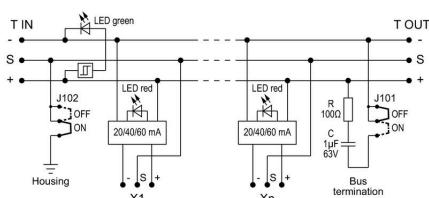
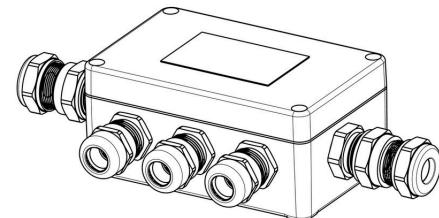
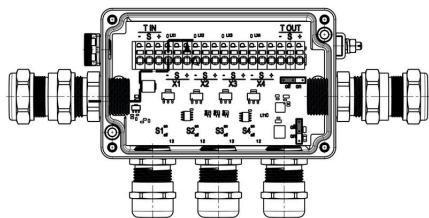
Classifications

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

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Accessories

Brass blanking plugs, round head IND



In addition to cable glands for a wide range of applications, the product portfolio is rounded off by plugs, pressure compensation elements, adaptors and the corresponding accessories such as locknuts, sealing rings, flat washers and earthing rings.

General ordering data

Type	VP 9-MS65	Version
Order No.	0294700000	VPMS (blanking plug in brass), Blanking plug, in closed state, PG 9, 5
GTIN (EAN)	4008190005887	mm, Brass, nickel-plated
Qty.	100 ST	

IP68 version



In addition to the extensive range of enclosures, Weidmüller offers a variety of cable glands for a wide range of applications. The cable glands made of brass, plastic and stainless steel meet the most various IP protection classes to suit any industrial enclosure. Depending on the series of cable glands and the application, the cable glands are approved and tested according to VDE, UL, UR, cULus, DNV GL or EN 45545.

General ordering data

Type	VG 9-MS68	Version
Order No.	1569070000	VG MS (standard brass cable gland), Cable glands, straight, PG 9, 6
GTIN (EAN)	4008190116262	mm, OD min. 4 - OD max. 8 mm, IP54, IP66, IP67, IP68 - 5 bar (30 min.), IP69K, Brass, nickel-plated
Qty.	50 ST	

Neoprene flat gasket - GWDR NP



In addition to cable glands for a wide range of applications, the product portfolio is rounded off by plugs, pressure compensation elements, adaptors and the corresponding accessories such as locknuts, sealing rings, flat washers and earthing rings.

General ordering data

Type	GWDR PG9-NP	Version
Order No.	1719550000	GWDR NP (flat gasket - neoprene), Sealing ring, PG 9, Neoprene
GTIN (EAN)	4008190352813	
Qty.	100 ST	

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General ordering data

Type	VG M16 - MS 68	Version
Order No.	1772210000	VG MS (standard brass cable gland), Cable glands, straight, M 16, 7
GTIN (EAN)	4032248129867	mm, OD min. 4 - OD max. 8 mm, IP54, IP66, IP67, IP68 - 5 bar (30
Qty.	50 ST	min.), IP69K, Brass, nickel-plated

M12

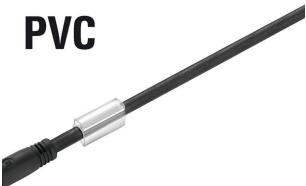


Protective caps protect unassigned plug-in stations against external influences.

General ordering data

Type	SAI-SK-M12	Version
Order No.	9456050000	Protected component assemblies, Protective cap
GTIN (EAN)	4008190304058	
Qty.	30 ST	

PVC/PE black (FBC)



The most reliable way of achieving connections between two I/O slaves or between the control and one I/O subscriber is by way of pre-assembled cables. The line of cables covers PROFIBUS, CANopen, DeviceNet™, EtherCAT and Ethernet.

General ordering data

Type	FBC PA M12 M 2M	Version
Order No.	1785120200	Bus line, One end without connector, M12, Number of poles: 2, 2 m,
GTIN (EAN)	4032248194803	pin, straight, Shielded: Yes, LED: No, Sheath material: PVC, Halogen:
Qty.	1 ST	Yes