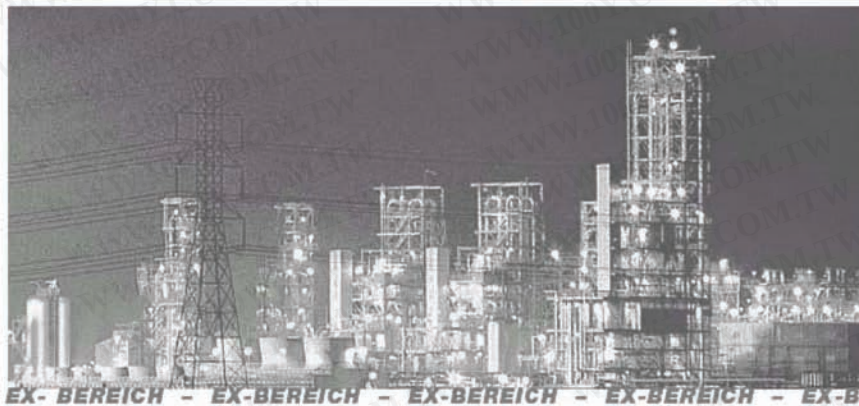




A new concept for explosion protection in Europe

The ATEX directive (from the French #201Eatmosphères explosives#201C), official designation 94/9/EC, became a statutory instrument in the CENELEC member states in 1996. The concept behind the new directive was the attempt to simplify the previous systems, whereby changes to the laws in the member states were regulated by national and international standards.

The legislation was passed under Article 100a of the Treaty of Rome (the foundation of the European Union). That resulted in the directive ATEX 100a.

Prior to this standards like the EN50014 series for dangerous areas had been incorporated in the EC directives. As national legislation was based on this directive, even small amendments require a change to the standard in the respective directive and thereupon in the national laws. The ATEX directive is based not on a single standard but rather on a series of fundamental safety and health requirements.

The EN50014 series of #201Eharmonised standards#201C backs up the ATEX directive, but no longer prescribes the content. That is what we call a #201ENew Concept#201C.

Aim of the directive

ATEX 100a is concerned with the never-ending introduction and commissioning of all products in the market-place. A prime objective is the unrestricted trade in goods across national boundaries within the EU and the CENELEC member states.

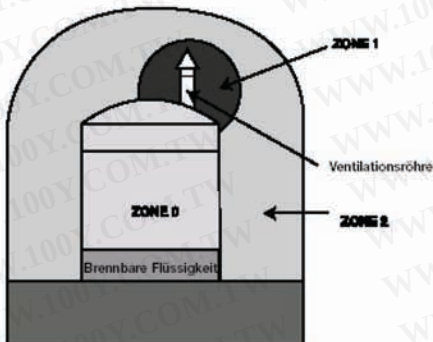
Timetable

As mentioned above, ATEX has part of national legislation since 1996. Up until 30 June 2003 ATEX was an equivalent option alongside the #201EOld Concept#201C, but was preferred. Since 1 July 2003 only ATEX is valid. All products put into operation after this date must comply with the requirements of the directive. This means that ATEX now has to be taken into account even for longer-term projects already in progress.

The differences in ATEX

Compared to the #201EOld Concept#201C, ATEX also considers the mechanical components and plants. This also affects mining operations.

The existing definition of the term #201Earea at risk of explosion#201C is not affected. This denotes combustible substances and materials that can detonate when in contact with the air under atmospheric conditions.



Behälter für brennbare Flüssigkeiten

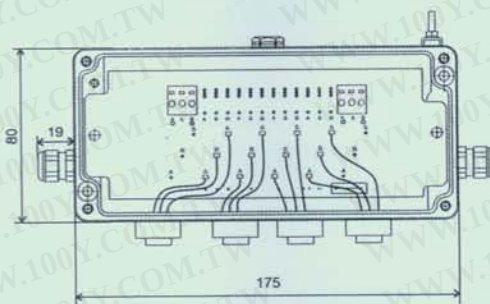
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 勝特力电子(上海) 86-21-54151736
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FIELDBUS FOUNDATION

FIELDBUS FOUNDATION connectors FB Con

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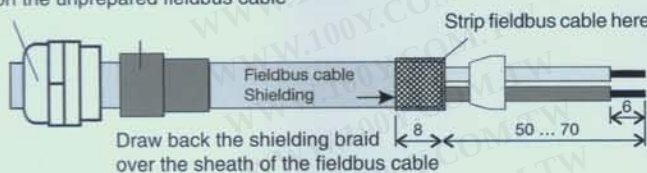


Part No. 8564280000
(Dimensioned Drawing)



Part No. 8564280000
(Wiring Drawing)

Shield is connected to the enclosure via the EMC cable glands. Thread the cable gland onto the seal, on the unprepared fieldbus cable



Use wire End ferrules!

Technical data Fieldbus Foundation – Aluminium Housing

Temperature range	
Operating temperature	from -40 to 85°C
Type of protection	IP 66
Material of housing	high-quality aluminium alloy (AL - Si 12)
Surface	stove-enamelled RAL 9005
Fieldbus connection	tension clamp connection 0.5 - 1.5 mm ²
Cable bushing	Cable gland M16
Clamping area	5.5 - 9.6 mm

Technical data Fieldbus Foundation - stainless steel housing

Operating temperature	from -40 to 85°C
Type of protection	IP 66
Material of housing	stainless steel 316 (L) 1.4404
Fieldbus connection	tension clamp connection 0.5 - 1.5 mm ²
Cable bushing	Cable gland M16
Clamping area	5 - 10 mm

Technical data Fieldbus Foundation with overvoltage protection

Nominal voltage DCV/AC	Un = 24 V DC / 18 V AC
Max. operating voltage	Uc = 30 V DC / 21 V AC
Nominal current with 25°C	In = 500 mA
Limited output voltage (wire-wire / wire-PE)	<65 V / <600 V
Rated discharge current	I _{sn} = 5 kA (wire-wire / wire-PE)
Output voltage max.	Up = 65 V
Resistor per line	2.2 Ohm

Technical data Fieldbus Foundation with limiter

Operating temperature	-40 to 55°C
Nominal voltage DCV/AC	Un = 24 V DC / 18 V AC
Max. operating voltage	Uc = 30 V DC / 21 V AC
Current Limitation each Spur	20/40/60 mA selectable with DIP-Switches

Installation advice

M16 cable gland on housing	- 5 Nm
Coupling ring, cable gland	- 3.75 Nm
Housing lid	1.8 - 2.0 Nm
Extended earthing cable	1.8 - 2.0 Nm

Ordering data

Type - Non Ex Area	Part No.
FBCon FF CG 1way with plastic cable glands	8613670000
FBCon FF CG 1way with stainless steel cable glands	8703430000
FBCon FF CG 4way with plastic cable glands	8613680000
FBCon FF CG 4way with stainless steel cable glands	8703450000
FBCon FF CG 8way with plastic cable glands	8640720000
FBCon FF CG 8way with stainless steel cable glands	8703470000

FBCon PA CG 1way	8564090000
FBCon PA CG 2way	8564100000
FBCon PA CG 4way	8564110000
FBCon PA CG 8way	8564300000

FBCon PA CG 1way Limiter	8714200000
FBCon PA CG 2way Limiter	8714210000
FBCon PA CG 4way Limiter	8714220000
FBCon PA CG 8way Limiter	8714230000

FBCon PA CG 1way OVP	8714120000
FBCon PA CG 2way OVP	8714130000
FBCon PA CG 4way OVP	8714140000
FBCon PA CG 8way OVP	8714150000

Type - Ex Area	Part No.
FBCon FF CG-7/8" 1way EEx (Ia)	8564260000
FBCon FF CG-7/8" 2way EEx (Ia)	8564270000
FBCon FF CG-7/8" 4way EEx (Ia)	8564280000

FBCon PA CG 1way Ex	8564180000
FBCon PA CG 2way Ex	8564190000
FBCon PA CG 4way Ex	8564200000
FBCon PA CG 8way Ex	8564240000

Type - End Terminator	Part No.
FBCon bus terminator EEx with locking clip + without earth connection	8556460000
FBCon bus terminator EEx without locking clip + without earth connection	8606190000
FBCon bus terminator EEx with locking clip + with earth connection	8606180000
FBCon bus terminator EEx without locking clip + with earth connection	8606200000



Profibus PA field bus distributor (EN 50 170, IEC 1158-2, DIN 19 245).

The Profibus PA is an open field bus standard. It was specially devised for the needs of process engineering, i.e. remote supplies, intrinsic safety, etc.

The Profibus PA enables several sensors and actuators to be operated on one bus line. The devices are supplied with power in 2-wire systems and the process data is transmitted digitally.

Up to 32 devices can be operated in one segment. Repeaters enable the bus length to be extended up to max. 10 km and max. 126 users. A bus length of up to 1900 m - in potentially explosive environments up to 1000 m - is possible with a transfer rate of 31.25 kbit/s. The bus can be wired in a line, tree or star arrangement.

The Profibus DP network is integrated by means of a segment coupler.

Specific advantages:

- Low wiring costs
- Minimum planning costs for the process control system
- Remote inquiry and/or programming of the field device
- Intrinsically safe design for applications in potentially dangerous environments
- Ongoing development and support by the Profibus Users (PNO)

Profibus PA T-connectors are available from Weidmüller.

In service cases or when plants are modified the PROFIBUS PA T-connectors from Weidmüller enable field devices to be connected and/or replaced without interrupting the bus system.

Profibus PA technical specification

Operating temperature	-40 to 85°C
Class of protection	IP 66
Enclosure material	high-quality aluminium alloy (AL - SI 12)
Surface finish	painted, RAL 7001
Profibus PA connection	tension spring clip, 0.5 - 1.5 mm ²
Cable entry	M16 screwed cable gland
Clamping range	5.5 - 9.5 mm
Measuring instrument connector, M12x1 4-pole	4-pole contact, brass; surface finish CuZnAu

Torques

M16 cable gland on enclosure	6.0 Nm
Union nut, M16 cable gland	4.0 Nm
Enclosure cover	1.8 - 2.0 Nm
Earthing connection, external	1.8 - 2.0 Nm

Technical specification, stainless steel enclosure

Operating temperature	-40 to 85°C
Class of protection	IP 66
Enclosure material	stainless steel 316 (L) 1.4404
Profibus PA connection	tension spring, 0.5 - 1.5 mm ²
Cable entry	M16 screwed cable gland
Clamping range 5.5 - 9.5 mm	5.5 - 9.5 mm

Torques

M16 cable gland on enclosure	~ 5 Nm
Union nut, M16 cable gland	~ 3.75 Nm
Enclosure cover	1.8 - 2.0 Nm
Earthing connection, external	1.8 - 2.0 Nm

Field-bus distribution board Field-bus Foundation Field-bus Foundation is an open field-bus standard

It was specially conceived for the demands of process engineering and includes remote feeding plus intrinsic safety.

Field-bus Foundation enables several sensors and actuators to be operated on one bus line. The devices are supplied with power in 2-wire systems and the process data is transmitted digitally.

Up to 32 devices can be operated in one segment. Repeaters enable the bus length to be extended up to max. 10 km and max. 126 users. A bus length of up to 1900 m - in potentially explosive environments up to 1000 m - is possible with a transfer rate of 31.25 kbit/s. The bus can be wired in a line, tree or star arrangement.

Integration in the Field-bus Foundation network is by means of a segment coupler.

Specific advantages of the Field-bus Foundation:

- Low wiring costs
- Minimum planning costs for the process control system
- Remote inquiry and/or programming of the field device
- Intrinsically safe design for applications in potentially dangerous environments

Field-bus Foundation connectors are available from Weidmüller.

In service cases or when plants are modified the Field-bus Foundation connectors from Weidmüller enable field devices to be connected and/or replaced without interrupting the bus system.



System Layout

The Profibus PA is an open fieldbus standard (EN 50 170, IEC 1158-2, DIN 19 245). It has been specially designed to meet the requirements of the process industry technology, in particular on remote supply and intrinsic safety.

With Profibus PA it is possible to operate several sensors and actuators on one common bus cable. Power supply to the devices is via 2-wire technology with digital transmission of the process data.

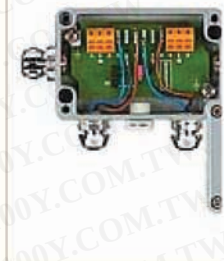
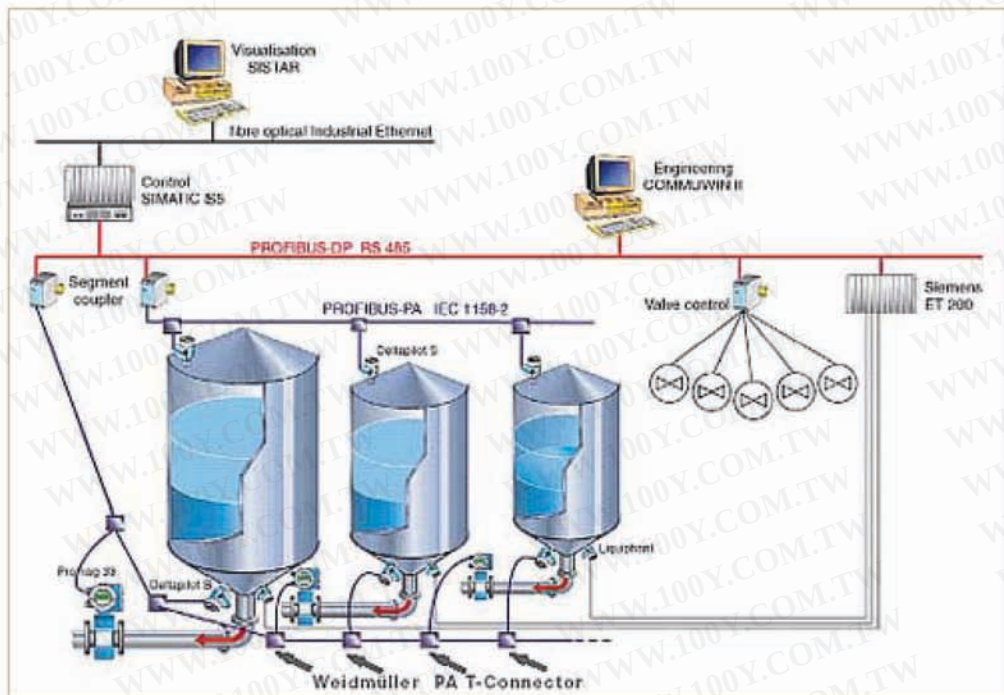
Integration in the Profibus DP network is carried out by means of a segment coupler.

Specific advantages Profibus PA:

- Low wiring costs
- Minimum design costs for the process control system
- Remote interrogation and programming of the field device
- Intrinsically safe design for use in dangerous atmosphere
- Further development and support through the Profibus user organisation (PNO)

Weidmüller offers the Profibus PA T-connectors. When servicing work is required or modifications are to be made to the PROFIBUS-PA T-connectors by Weidmüller

allow for field devices to be connected up or replaced without interrupting the field system.



Applications

When accurate measuring of a tank level within a hazardous area at a paint producer in South Africa was required, PROFIBUS-PA using T-Connectors from Weidmüller provided the solution.



Using intrinsically safe circuits, the expense of providing Ex barriers was avoided.

Remote interrogation and programming of devices meant that personnel access into the hazardous area could be kept to a minimum. “ADLER-Werk Lackfabrik” has developed over more than 6 decades to become one of Austria’s largest producers of paints and coatings. For ADLER, the PROFIBUS-PA system offers, in comparison to the previous mix of process technologies, several advantages, from reduced wiring to considerably more efficient operation. The Weidmüller PA-T-Connector was used here in connection with flow measuring systems.



Here are more examples of application

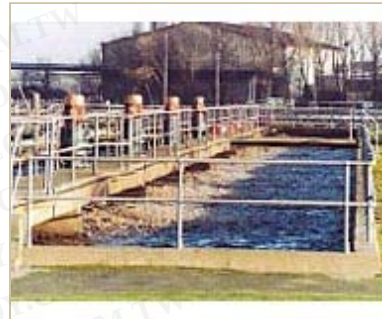
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More examples of application

Changing over from traditional 4-20 mA technology to Profibus PA meant that the Bitburger Brewery in Germany was able to see significant cost savings in cabling and operation and allowed an easy integration of existing parts of the plant with new systems. Here, T-Connectors from Weidmüller were used for the connection of the hydrostatic level and pressure transmitters.



Under the motto “the communication system must be economical to run” PROFIBUS PA was implemented at Wacker Chemie in Cologne, Germany.



Due to the fact that when chemicals and process materials are manufactured, potentially explosive atmospheres can result, intrinsically safe circuits were required, into which the T-Connector from Weidmüller found its natural position.

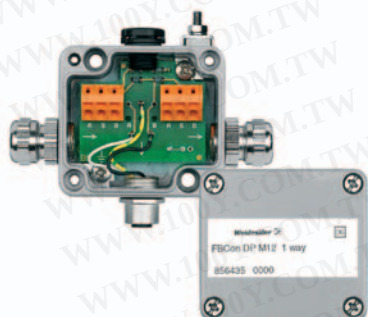
The result: increased operability together with total system cost savings.

Profibus DP

Standard distributor with or without active bus termination

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1-way distributor



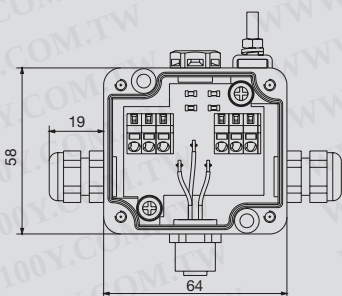
Ordering data

Aluminium housing	Type of connection	Qty.	Order No.
FBCon DP M12 1way	branch line M12	1	8564350000
FBCon DP CG 1way	branch line CG	1	8564340000

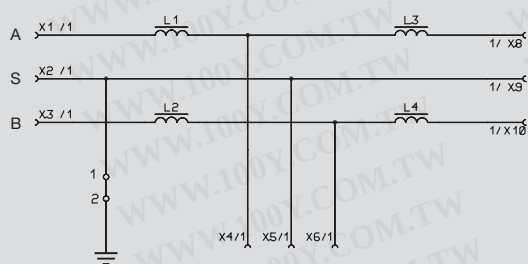
Stainless steel housing	Type of connection	Qty.	Order No.
FBCon SS DP M12 1way	branch line M12	1	8714270000
FBCon SS DP CG 1way	branch line CG	1	8714260000

Trunk line over cable glands

Dimensioned drawing

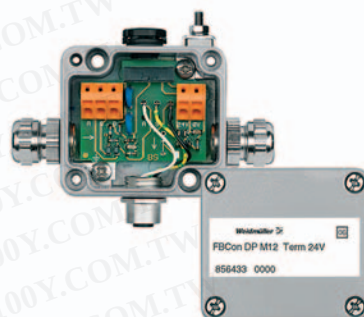


Wiring diagram



L1 = L2 = L3 = L4 = 120nH

Terminator



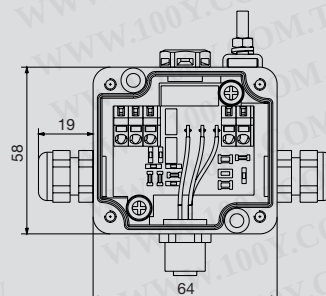
Ordering data

Aluminium housing	Type of connection	Qty.	Order No.
FBCon DP CG Term 24V	branch line CG	1	8564290000
FBCon DP M12 Term 24V	branch line M12	1	8564330000

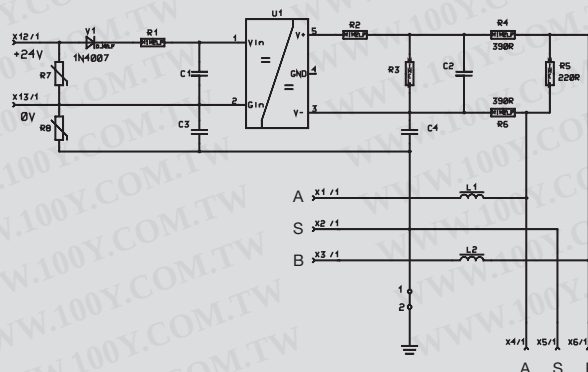
Stainless steel housing	Type of connection	Qty.	Order No.
FBCon SS DP M12 Term 24V	branch line M12	1	8714250000
FBCon SS DP CG Term 24V	branch line CG	1	8714240000

Trunk line over cable glands

Dimensioned drawing



Wiring diagram

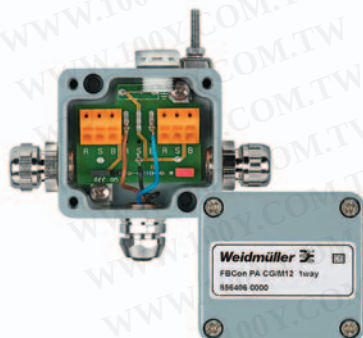


Profibus PA

Standard distributor

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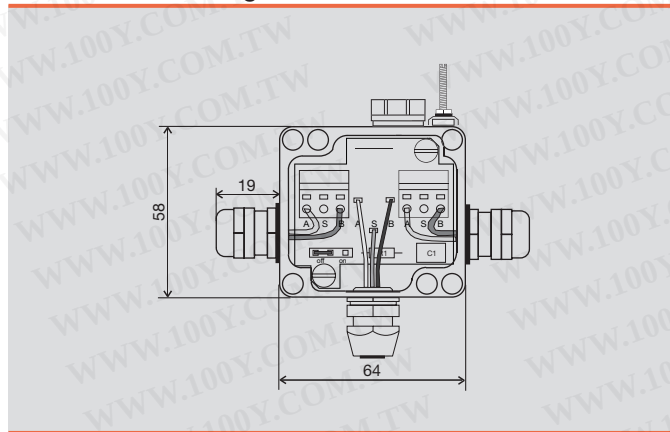
1-way distributor



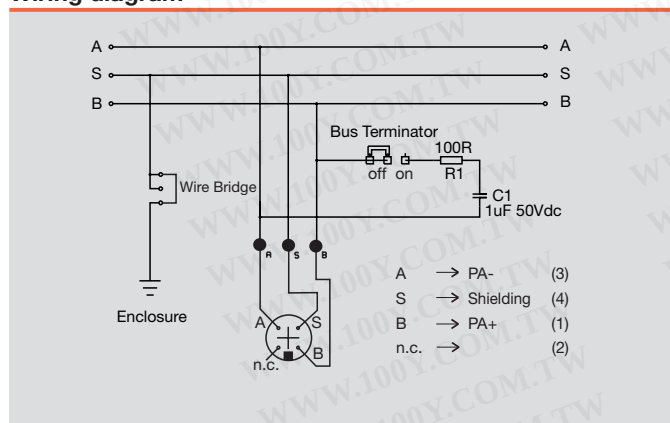
Ordering data

Aluminium housing	Type of connection	Qty.	Order No.
FBCon PA CG 1way	branch line CG	1	8564090000
FBCon PA CG/M12 1way	branch line M12	1	8564060000
Stainless steel housing			
FBCon SS CG 1way	branch line CG	1	8703430000
FBCon SS CG/M12 1way	branch line M12	1	8726020000
FBCon SS PCG 1way	all connections PCG	1	8613670000
Trunk line over cable glands			

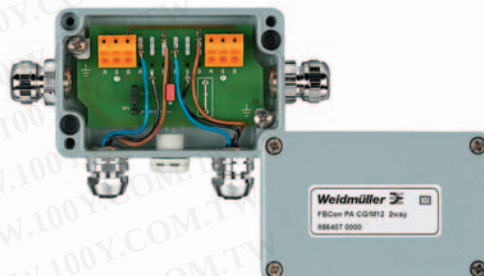
Dimensioned drawing



Wiring diagram



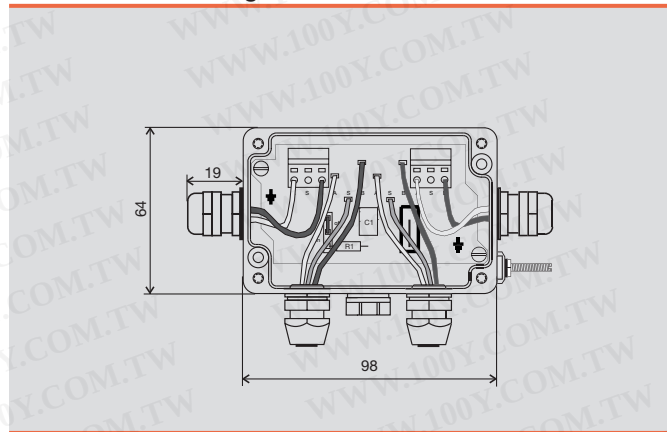
2-way distributor



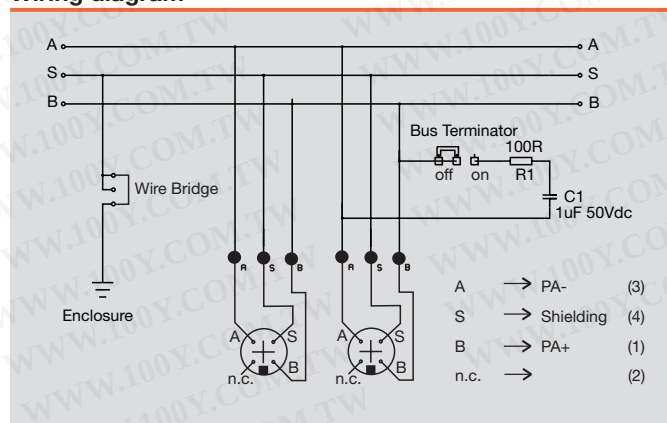
Ordering data

Aluminium housing	Type of connection	Qty.	Order No.
FBCon PA CG 2way	branch line CG	1	8564100000
FBCon PA CG/M12 2way	branch line M12	1	8564070000
Stainless steel housing			
FBCon SS CG 2way	branch line CG	1	8726060000
FBCon SS CG/M12 2way	branch line M12	1	8726030000
FBCon SS PCG 2way	all connections PCG	1	8726010000
Trunk line over cable glands			

Dimensioned drawing



Wiring diagram

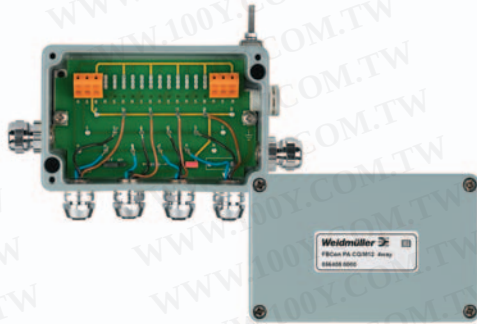


Profibus PA

Standard distributor

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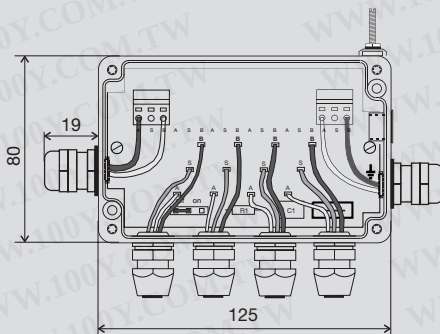
4-way distributor



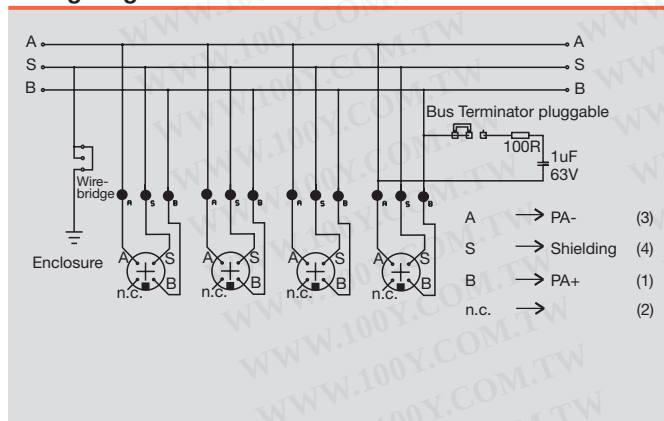
Ordering data

Aluminium housing	Type of connection	Qty.	Order No.
FBCon PA CG 4way	branch line CG	1	8564110000
FBCon PA CG/M12 4way	branch line M12	1	8564080000
Stainless steel housing			
FBCon SS CG 4way	branch line CG	1	8703450000
FBCon SS CG/M12 4way	branch line M12	1	8726040000
FBCon SS PCG 4way	all connections PCG	1	8613680000
Trunk line over cable glands			

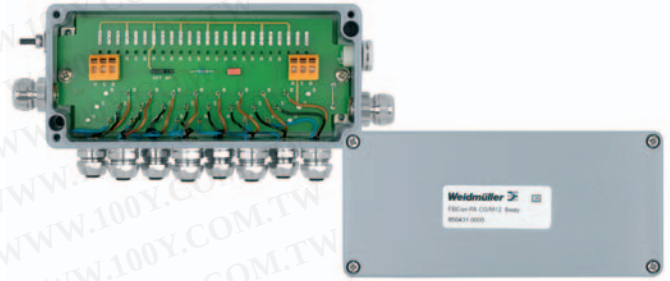
Dimensioned drawing



Wiring diagram



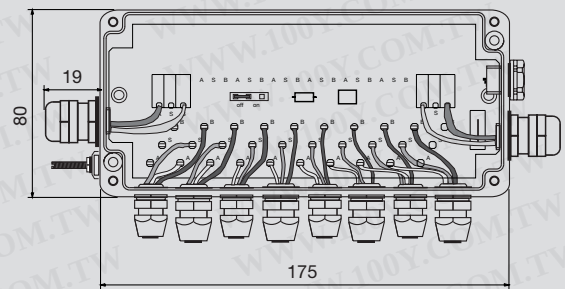
8-way distributor



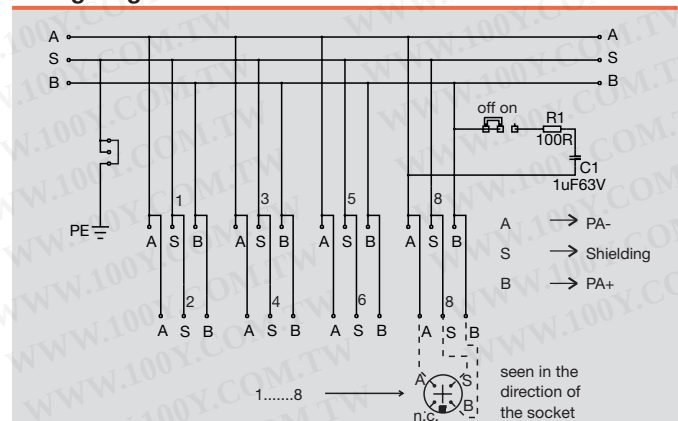
Ordering data

Aluminium housing	Type of connection	Qty.	Order No.
FBCon CG 8way	branch line CG	1	8564300000
FBCon CG/M12 8way	branch line M12	1	8564310000
Stainless steel housing			
FBCon SS CG 8way	branch line CG	1	8703470000
FBCon SS CG/M12 8way	branch line M12	1	8726050000
FBCon SS PCG 8way	all connections PCG	1	8640720000
Trunk line over cable glands			

Dimensioned drawing



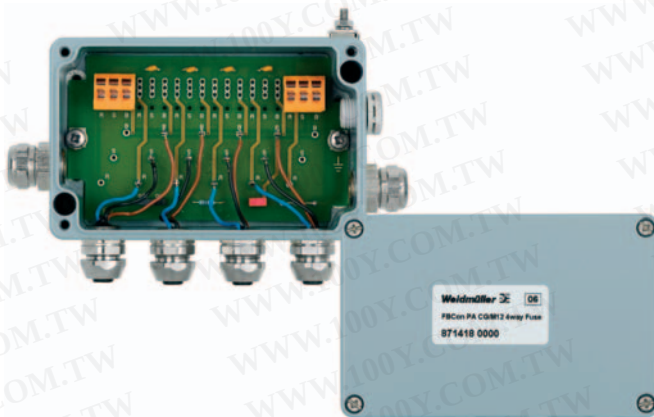
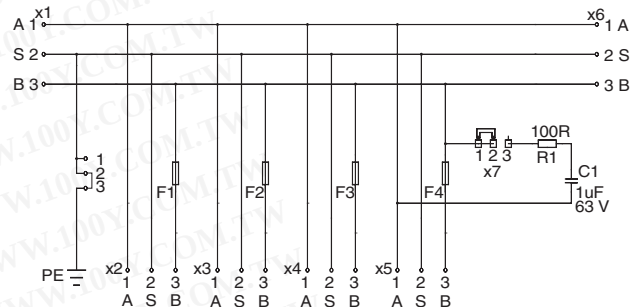
Wiring diagram



Profibus PA-Industry

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Fieldbus components for industrial applications with overvoltage protection or fuse



Example: 4-way module with fuse

Profibus PA T-connectors

are now also available with overvoltage fine protection or integrated fuse to protect connected measuring devices, sensors or actuators from possible overvoltage or short-circuits. Gas divertors and suppressor diodes are used as voltage limiting safety elements, with a resetting fuse to protect the bus subscribers from short-circuits.

If a fast voltage pulse reaches the input of a T-connector with overvoltage protection, the gas divertor ignites and deflects the high current.

The remaining pulse is limited by a suppressor diode. In the case of a slower increase in voltage, the pulse is only processed by the diode. An external earthing stud connects the enclosure with protective earth.

When using the connectors with fuse, the bus subscribers are protected from short circuits by a 100 mA fuse.

These connectors retain all the advantages of the standard distributors while adding overvoltage and short-circuit protection.

Overvoltage protection Technical data

Operating temperature	-40 to 85°C
Protection class	IP 67
Enclosure material	High grade aluminium alloy (Al-Si 12)
Finish	Painted RAL 7001
Profibus PA connection	Tension-clamp terminals 0.5 – 1.5 mm ²
Cable bushing	Cable gland M16
Stub	M12 socket (4-pin)
Cable gland clamping range	5.5 – 9.5 mm
Nominal voltage DC/AC	U _N = 24 V DC / 18 V AC
Max. tol. operating voltage	U _C = 30 V DC / 21 V AC
Rated current at 30°C	I _N = 500 mA
Trip surge voltage (1 kV/μs)	< 600 V
Nominal leakage current (8/20 μs)	Idto. = 10 KA (wire-wire, wire-PE)
Output voltage limit (8/20 μs)	Up = 65 V
PA bus-connection	Via jumper

Installation advice

Torques	
Screw terminals	0.4 Nm
M16 cable gland at enclosure	6.0 Nm
Coupling ring M16 cable gland	4.0 Nm
Enclosure lid	1.8 – 2.0 Nm
External earthing cable	1.8 – 2.0 Nm

Fuse Technical data

Operating temperature	-40 to 85°C
Protection class	IP 67
Enclosure material	High grade aluminium alloy (Al-Si 12)
Finish	Painted RAL 7001
Profibus PA connection	Tension-clamp terminals 0.5 – 1.5 mm ²
Cable bushing	Cable gland M16
Stub	M12 socket (4-pin)
Cable gland clamping range	5.5 – 9.5 mm
Short-circuit protection per subscriber	100 mA fuse
Holding current	I _{hold} = 100 mA at 20°C
Tripping current	I _{trip} = 200 mA at 20°C
PA bus-connection	Via jumper

Installation advice

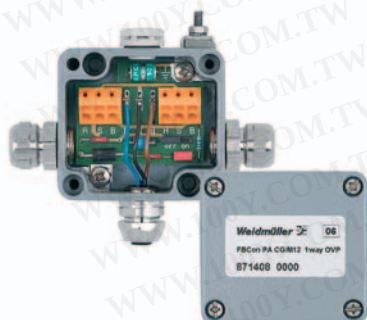
Torques	
Screw terminals	0.4 Nm
M16 cable gland at enclosure	6.0 Nm
Coupling ring M16 cable gland	4.0 Nm
Enclosure lid	1.8 – 2.0 Nm
External earthing cable	1.8 – 2.0 Nm

Profibus PA

Standard distributor with overvoltage protection (OVP) or fuse

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1-way distributor OVP/Fuse



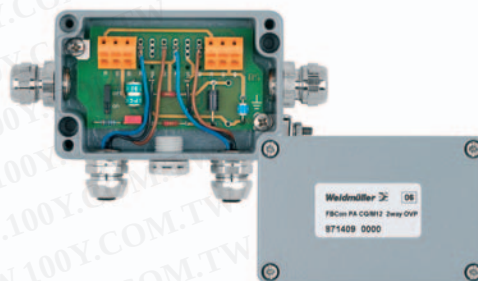
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Ordering data

Aluminium housing	Type of connection	VPE	Order No.
FBCon PA CG 1way Fuse	branch line CG	1	8714200000
FBCon PA CG 1way OVP	branch line CG	1	8714120000
FBCon PA CG/M12 1way Fuse	branch line M12	1	8714160000
FBCon PA CG/M12 1way OVP	branch line M12	1	8714080000
Stainless steel housing			
FBCon SS PCG 1way Fuse	all connections PCG	1	8726110000
FBCon SS PCG 1way OVP	all connections PCG	1	8715270000

Trunk line over cable glands

2-way distributor OVP/Fuse



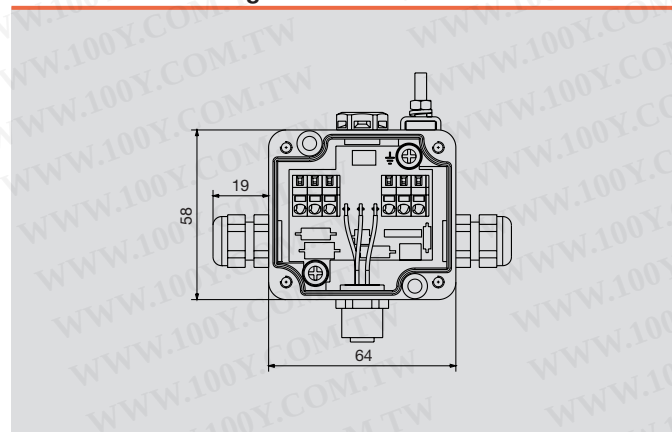
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Ordering data

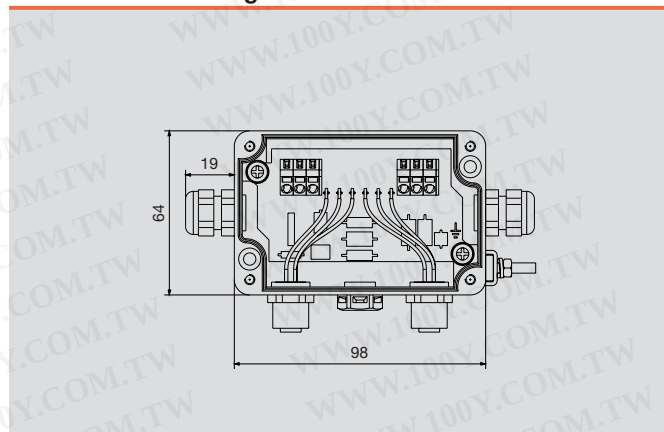
Aluminium housing	Type of connection	VPE	Order No.
FBCon PA CG 2way Fuse	branch line CG	1	8714210000
FBCon PA CG 2way OVP	branch line CG	1	8714130000
FBCon PA CG/M12 2way Fuse	branch line M12	1	8714170000
FBCon PA CG/M12 2way OVP	branch line M12	1	8714090000
Stainless steel housing			
FBCon SS PCG 2way Fuse	all connections PCG	1	8726140000
FBCon SS PCG 2way OVP	all connections PCG	1	8726070000

Trunk line over cable glands

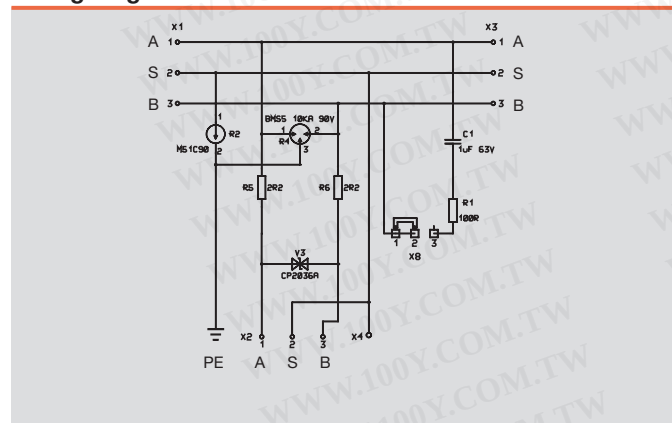
Dimensioned drawing



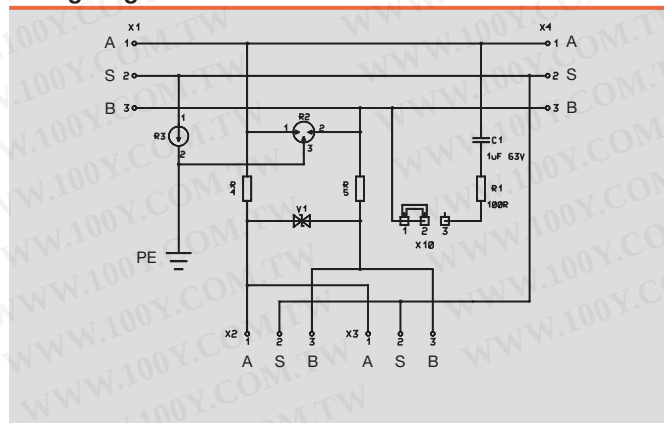
Dimensioned drawing



Wiring diagram



Wiring diagram

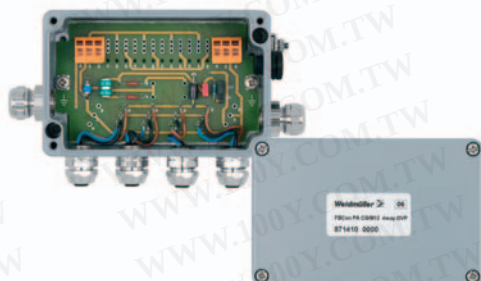


Profibus PA

Standard distributor with overvoltage protection (OVP) or fuse

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4-way distributor



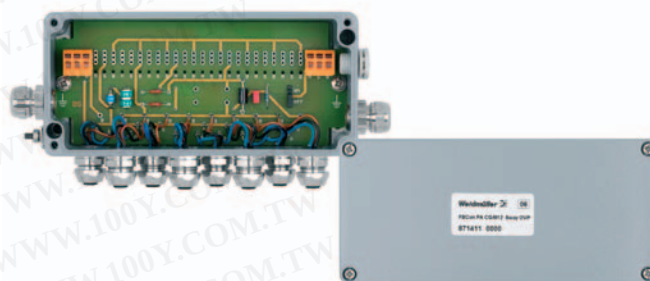
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Ordering data

Aluminium housing	Type of connection	VPE	Order No.
FBCon PA CG 4way Fuse	branch line CG	1	8714220000
FBCon PA CG 4way OVP	branch line CG	1	8714140000
FBCon PA CG/M12 4way Fuse	branch line M12	1	8714180000
FBCon PA CG/M12 4way OVP	branch line M12	1	8714100000
Stainless steel housing			
FBCon SS PCG 4way Fuse	all connections PCG	1	8715260000
FBCon SS PCG 4way OVP	all connections PCG	1	8726080000

Trunk line over cable glands

8-way distributor



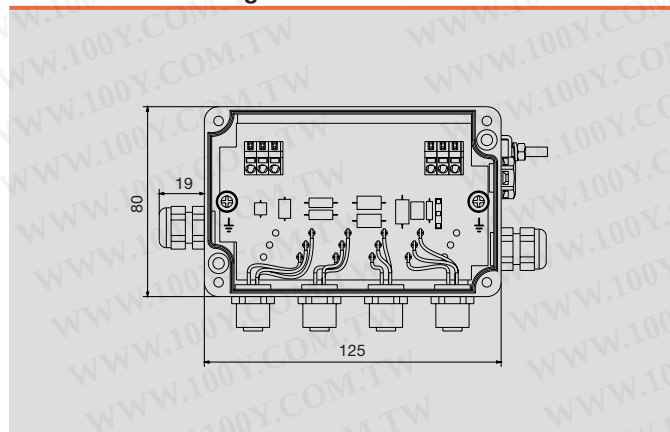
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Ordering data

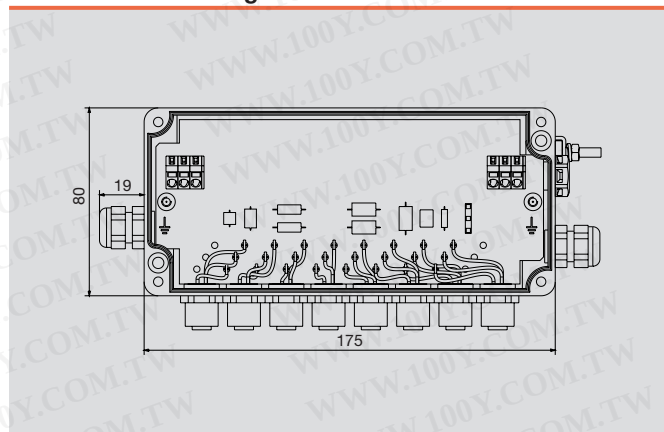
Aluminium housing	Type of connection	VPE	Order No.
FBCon PA CG 8way Fuse	branch line CG	1	8714230000
FBCon PA CG 8way OVP	branch line CG	1	8714150000
FBCon PA CG/M12 8way Fuse	branch line M12	1	8714190000
FBCon PA CG/M12 8way OVP	branch line M12	1	8714110000
Stainless steel housing			
FBCon SS PCG 8way Fuse	all connections PCG	1	8726160000
FBCon SS PCG 8way OVP	all connections PCG	1	8726090000

Trunk line over cable glands

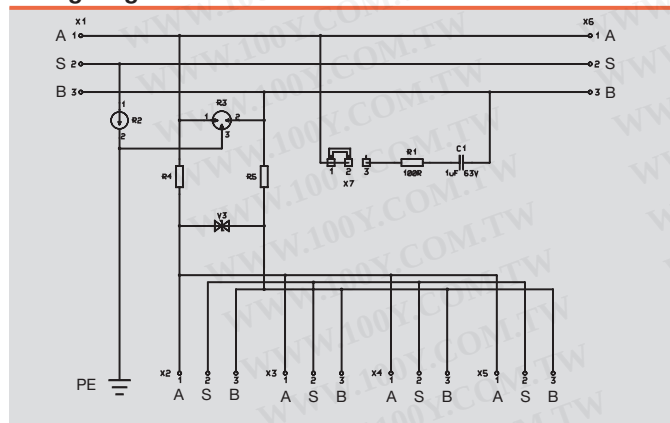
Dimensioned drawing



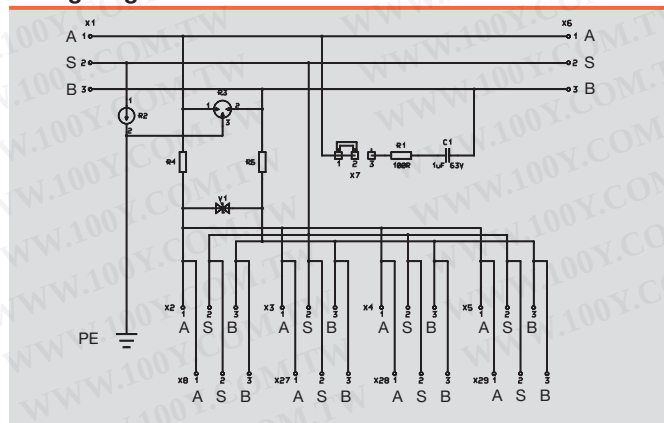
Dimensioned drawing



Wiring diagram



Wiring diagram



Articles with coloured order number are kept permanently in stock at the central warehouse in Germany.
 Delivery times see page X.2

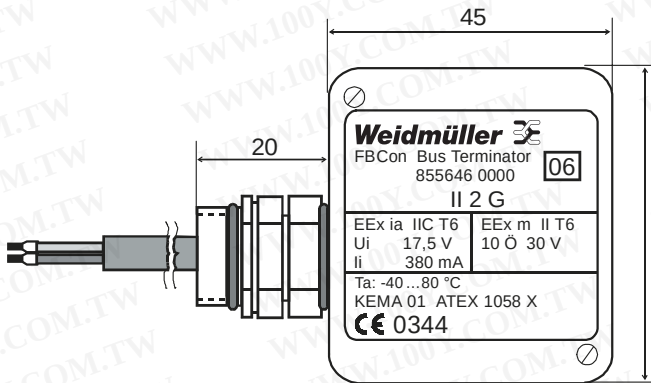
Profibus PA-Atex

FBCon bus terminator

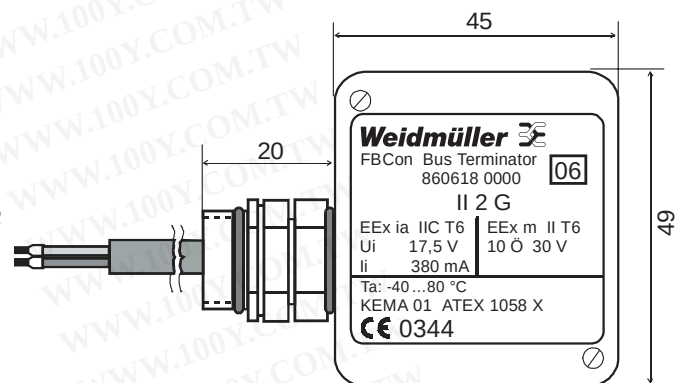


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FBCon bus terminator without earth connection



FBCon Bus Terminator with earth connection



FBCon bus terminator with earth connection
 The use of a cable lug is recommended for earthing the bus terminator

Ordering data

Type	Qty	Order No.
FBCon bus terminator Eex with locking clip + without earth connection	1	8556460000
FBCon bus terminator Eex without locking clip + without earth connection	1	8606190000

Ordering data

Type	Qty	Order No.
FBCon bus terminator Eex with locking clip + with earth connection	1	8606180000
FBCon bus terminator Eex without locking clip + with earth connection	1	8606200000

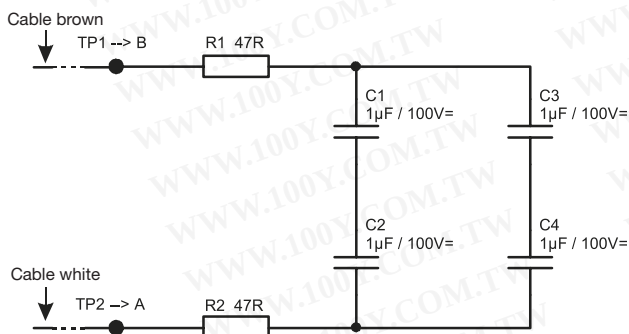
Technical data

Operating temperature	-40 to 80°C
Protection class	IP 66
Enclosure material	High grade aluminium alloy (Al - Si 12)
Finish	Black powder-coated
Connection lead	2 x 0.14 mm²
Cable bushing	Bus adapter M16

Installation advice

Torques	
M16 adapter on enclosure	6.0 Nm
External earthing cable (if necessary)	1.8 - 2.0 Nm

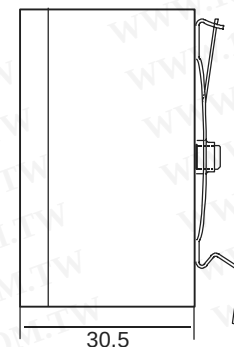
Circuit diagram



Enclosure lid without locking clip



Enclosure lid with locking clip



Profibus PA-Atex

Standard distributor for Ex-applications EEx(ia)

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1-way distributor EEx



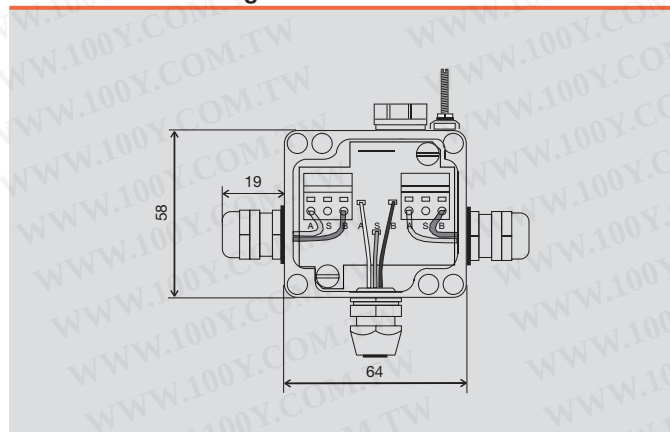
Ordering data

Aluminium housing	Type of connection	Qty.	Order No.
FBCon PA CG 1way Ex	branch line CG	1	8564180000
FBCon PA CG/M12 1way Ex	branch line M12	1	8564150000

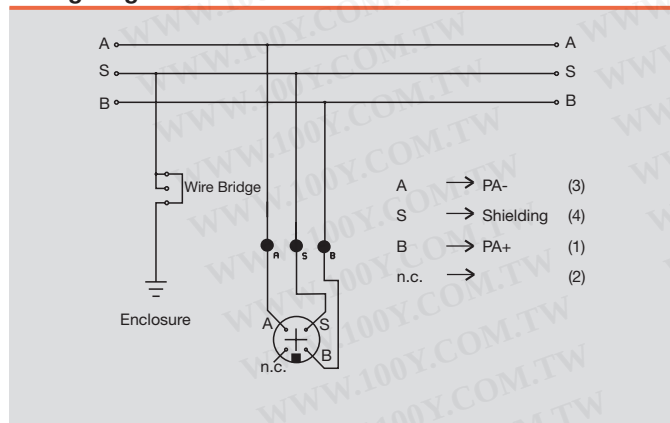
Stainless steel housing

Trunk line over cable glands

Dimensioned drawing



Wiring diagram



2-way distributor EEx



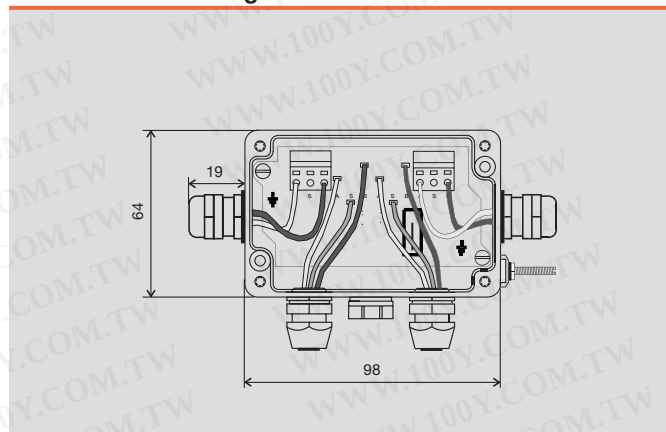
Ordering data

Aluminium housing	Type of connection	Qty.	Order No.
FBCon PA CG 2way Ex	branch line CG	1	8564190000
FBCon PA CG/M12 2way Ex	branch line CG	1	8564160000

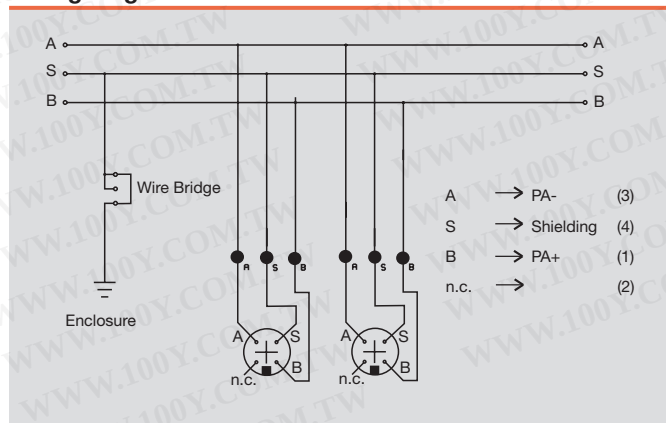
Stainless steel housing

Trunk line over cable glands

Dimensioned drawing



Wiring diagram

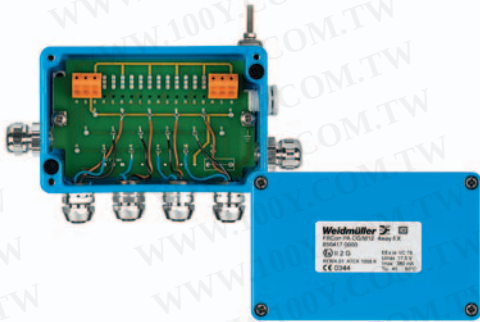


Profibus PA-Atex

Standard distributor for Ex-applications EEx(ia)

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4-way distributor EEx



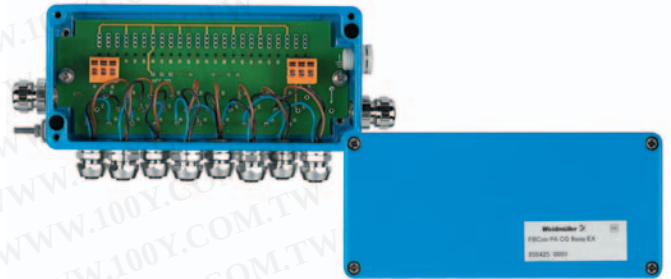
Ordering data

Aluminium housing	Type of connection	Qty.	Order No.
FBCon 4CG 4way Ex	branch line CG	1	8564200000
FBCon PA CG/M12 4way Ex	branch line M12	1	8564170000

Stainless steel housing

Trunk line over cable glands

8-way distributor EEx



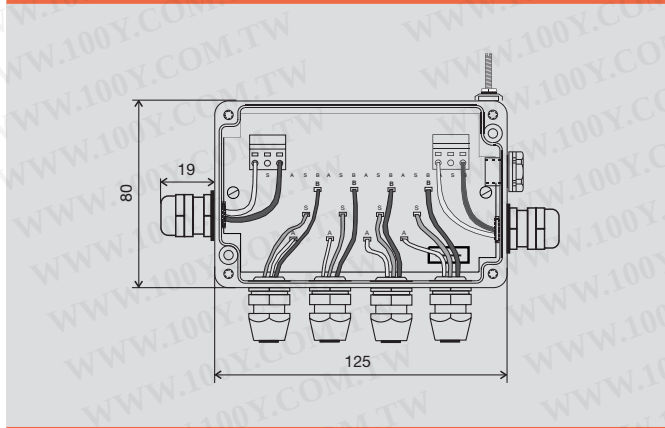
Ordering data

Aluminium housing	Type of connection	Qty.	Order No.
FBCon PA CG 8way Ex	branch line CG	1	8564240000
FBCon PA M12 8way Ex	branch line M12	1	8564250000

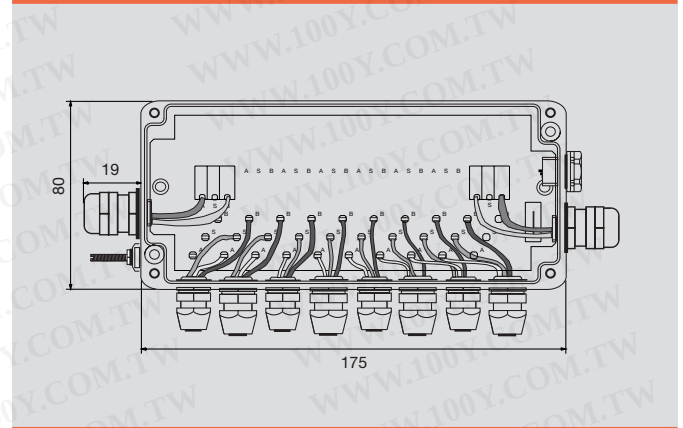
Stainless steel housing

Trunk line over cable glands

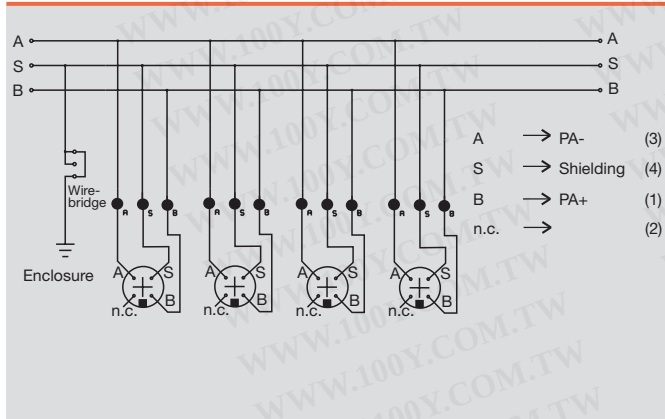
Dimensioned drawing



Dimensioned drawing



Wiring diagram



Wiring diagram

