

Hazardous Location

Products and Applications



WAGO[®]

Fieldbus-Independent I/O for Hazardous Areas!

WAGO-I/O-SYSTEM 750 –
Fieldbus-Independent I/O for Hazardous Areas

Designed for hazardous areas:

- Approved for use in Zone 2/22 and mining
- Ex i I/O modules connect to intrinsically safe sensors/actuators
- Certified to ATEX, IECEx, UL ANSI/ISA 12.12.01, UL508, marine applications, GOST-R, etc.



WAGO-I/O-SYSTEM

Automation

Flexible – Fieldbus-Independent – Decentralized

Compact, flexible & modular:

- Most compact, fieldbus-independent control unit (PLC)
- Programmable according to IEC 61131-3
- 400+ I/O modules available
- Standard I/O and Ex i modules can be combined
- Different potentials can be supplied within one node
- Supports both IEC 60870 and IEC 61850 telecontrol protocols



WAGO-I/O-IPC

Safety meets Ex i:

- All in one module: functional safety and explosion protection



Programmable Fieldbus Controller (PLC)

CAGE CLAMP® technology:

- Gas-tight spring clamp connection
- Vibration-proof and maintenance-free
- High system availability and reliability



EPSITRON® Power Supplies



TOPJOB® S Rail-Mounted Terminal Blocks 0.14–16 mm² (24–6 AWG)

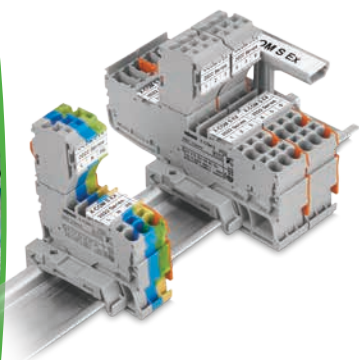
POWER CAGE CLAMP High-Current DIN-Rail Terminal Blocks from 6 to 95 mm² (10–4/0 AWG)

Rail-Mount Terminal Block Systems

All through and ground conductor terminal blocks of the TOPJOB® S rail-mount terminal block system, as well as the special Ex high-current terminal blocks are suitable for use in Ex e I/II areas.

They provide the most reliable connection for extreme environmental conditions, such as gas, dust or mines.

The X-COM® S pluggable connector system, which combines DIN-rail terminal blocks and female plugs, is also available for Ex applications. The components of the X-COM® S-SYSTEM are non-sparking ("nA" type of protection) and approved for use in Zone 2 hazardous areas.



Pluggable DIN-Rail Terminal Blocks: X-COM® S-SYSTEM

Reliable – Fast – Maintenance-Free

Electrical Connection Technology

Your benefits at a glance:

- Industry's widest range of rail-mount terminal blocks from 0.14–95 mm² (24–4/0 AWG)
- Suitable for all conductor types
- CAGE CLAMP® S push-in termination technology – for solid and ferruled conductors
- POWER CAGE CLAMP – reliably connects large-gauge wires without a lot of preparation
- Comprehensive jumper system for virtually any application
- Industry's fastest and most cost-effective marking system
- TOPJOB® S: vibration-proof, fast and maintenance-free



Ex e Junction Box Connectors



PCB Terminal Blocks

Use in Hazardous Areas

WAGO-I/O-SYSTEM

For operation as a "Category 3 device" (in Zone 2 or 22), the WAGO-I/O SYSTEM 750-*** must be installed in an enclosure that meets the requirements for a device according to Directive 94/9/EC and the corresponding standards (see ID marking) EN 60079-0, EN 60079-11, EN 60079-15, EN 61241-0 and EN 61241-1.

For operation as a device of Group I, Category M2, the device must be installed in an enclosure that affords adequate protection based on EN 61241-0 and EN 61241-1.

A declaration of conformity based on Appendix X of Directive 94/9/EC must confirm the correct installation of the devices cited above in the enclosure or control cabinet.

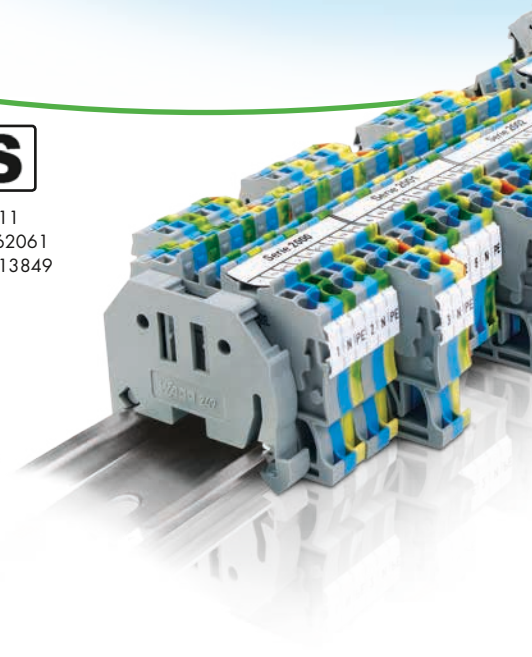


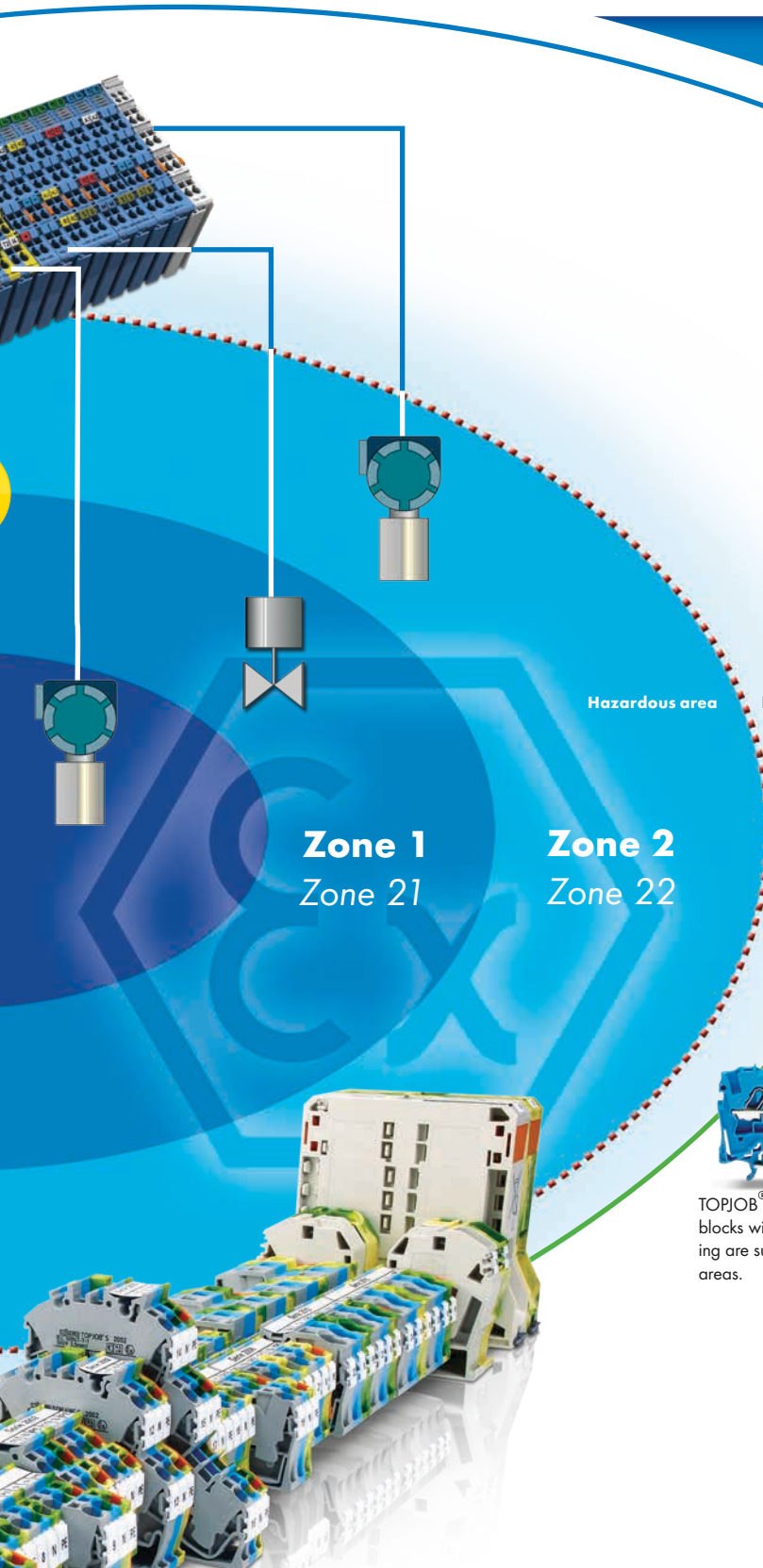
Zone 0
Zone 20



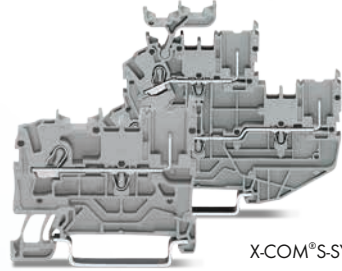
IEC 61511
EN IEC 62061
EN ISO 13849

- Fail-safe digital input module for sensors in Ex Zones 0/20 and 1/21
- Installation in Ex Zone 2/22
- Features 4 intrinsically safe inputs with functional safety
- Rated up to SIL 3, Cat. 4/PL e
- PROFIsafe
- Module width: 24 mm





X-COM®S-SYSTEM Female Plugs



X-COM®S-SYSTEM Carrier Terminal Blocks

Hazardous area

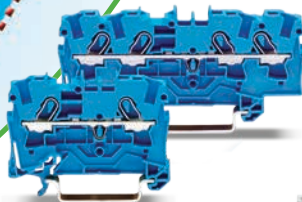
Non-hazardous area

Zone 1
Zone 21

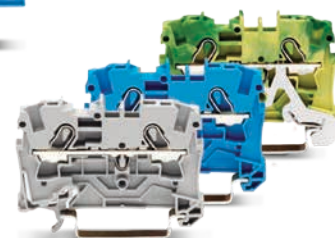
Zone 2
Zone 22

X-COM®S-SYSTEM

Both X-COM®S-SYSTEM carrier terminal blocks and female plugs (see pictures above) are approved for use in Ex nA and Zone 2 hazardous areas. The female plugs also feature a shorter locking lever, making accidental disconnection even more difficult.



TOPJOB® S through terminal blocks with blue insulated housing are suitable for use in Ex i areas.



All TOPJOB® S through and ground conductor terminal blocks are suitable for use in Ex e II areas.

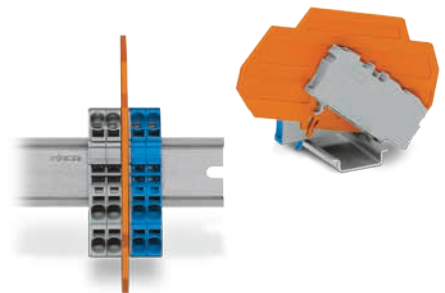


TOPJOB® S

Rail-Mounted Terminal Blocks

The TOPJOB® S series of DIN-rail terminal blocks is designed for use in Ex e I/II areas and ideal for a wide range of industrial and building applications.

Their compact design (from 3.5 mm terminal block width) provides more room for wiring, or smaller control cabinets. The many marking options available also ensure a clear overview and extra safety.



TOPJOB® S through and ground conductor terminal blocks are all certified for use in hazardous areas. When Ex e and Ex i circuits are combined, a space-efficient separator plate can be used to maintain the "safety" gap of 50 mm.

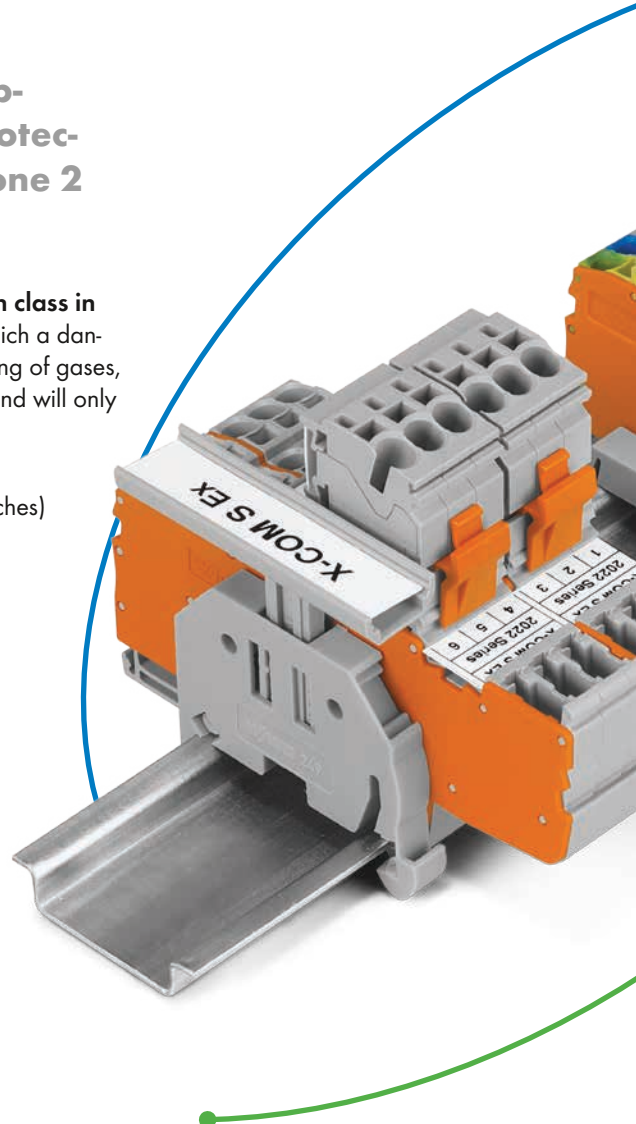
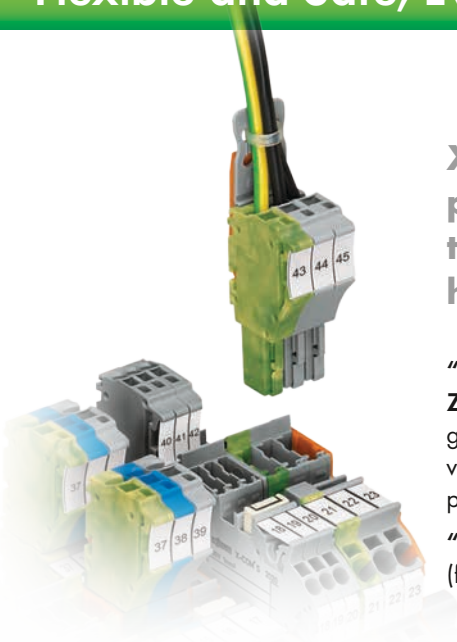
X-COM® S-SYSTEM for Ex Applications: A System Combining

Flexible and Safe, Even in Hazardous Areas

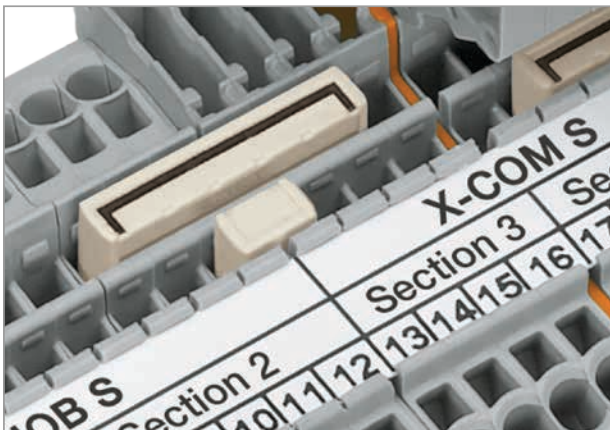
X-COM® S-SYSTEM is approved for ignition protection type "nA" and Zone 2 hazardous areas.

"n" refers to an ignition protection class in Zone 2: This zone covers areas in which a dangerous, explosive atmosphere consisting of gases, vapors or dust is unlikely to manifest and will only persist for a short period if it does.

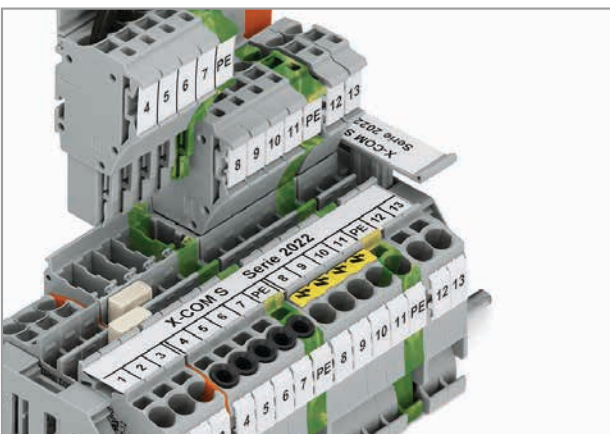
"A" means: non-sparking (function modules without relays/switches)



Commoning



Marking



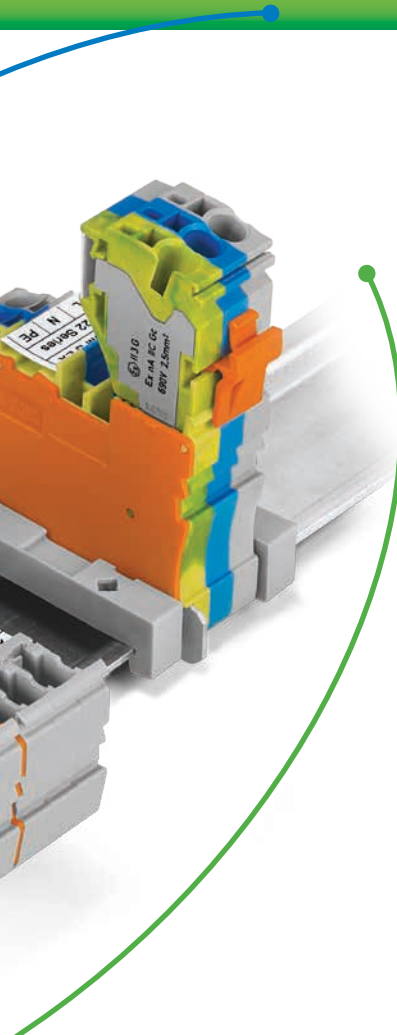
Marking using marking strips or WMB markers.

Coding



Remove coding finger using a cutting tool.

ing Pluggable DIN-Rail Terminal Blocks and Connectors



Benefits of using the X-COM®S-SYSTEM with Ex approval

Before assembly:

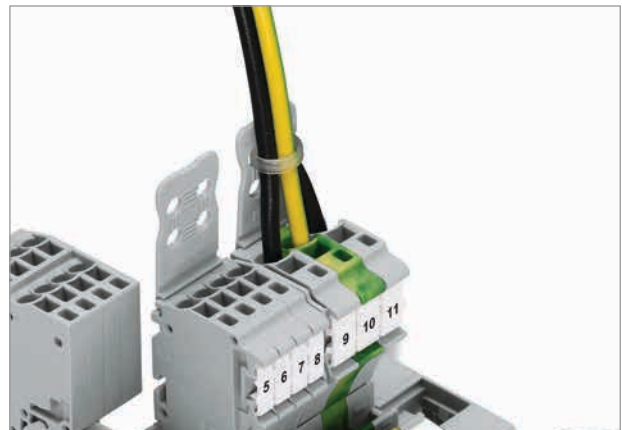
- Preassembly and testing of all components

On site:

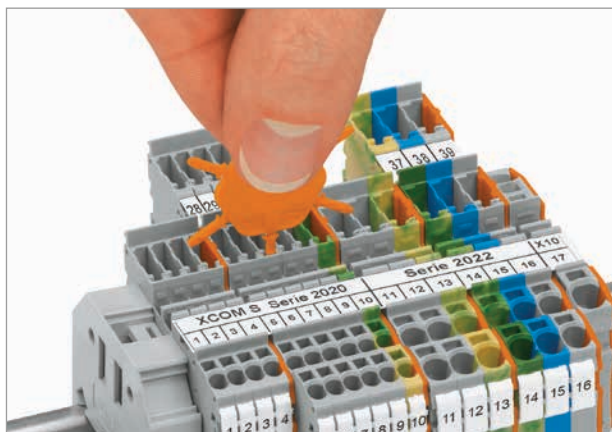
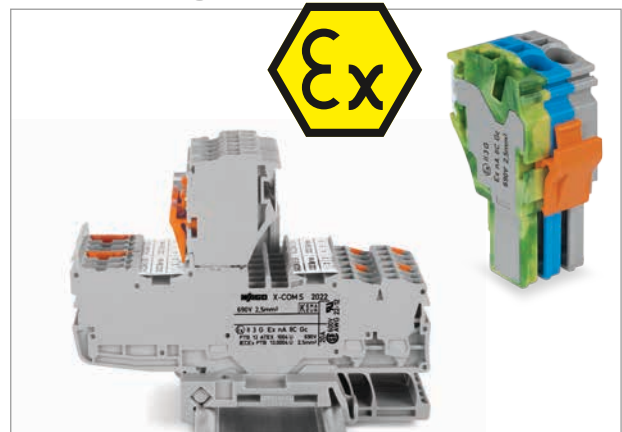
- Quick replacement of pre-assembled components in systems that are difficult to access
- Both mismatching and touch-proof protections provide reliable assembly even by external service providers
- Fast and reliable maintenance work helps minimizing downtimes

⇒ Time- and cost-saving system wiring

Strain relief



Ex marking



Insert coding pin into the corresponding slot and twist it off.
(Same handling for X-COM®S-SYSTEM-MINI (picture shows 2020 Series) and X-COM®S-SYSTEM, 2022 Series)

“Ex” sign and extended item number “.../0999-0953” are printed on the side of both carrier terminal blocks and female plugs with Ex approval.

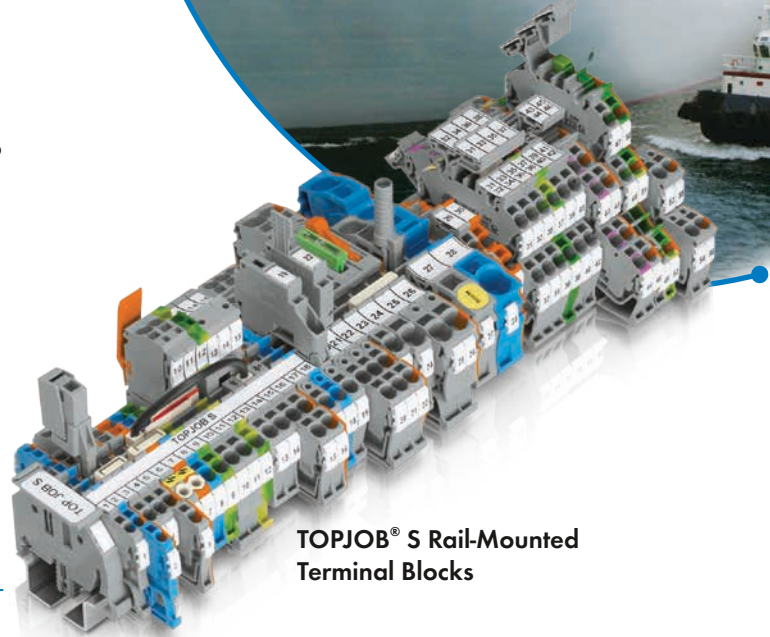
Shorter locking lever (factory-mounted) makes accidental disconnection even more difficult.

Offshore

Tank Measurement and Alarm Management

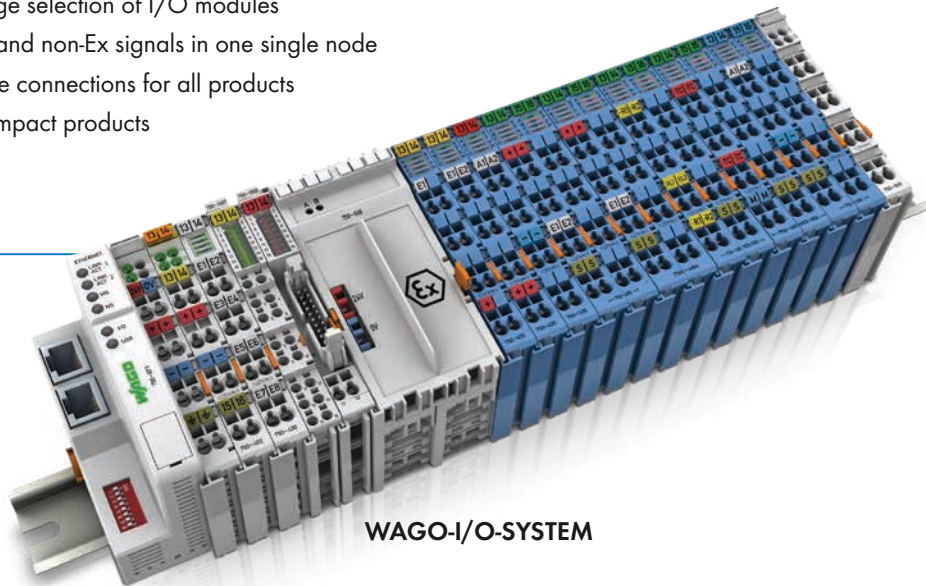
In addition to standard ship approvals, special ships must adhere to a wide range of different specifications and also place special demands on propulsion control and alarm monitoring.

The widest array of signals (Ex, Non-Ex), for example, must be integrated into the automation system. An easy task for the WAGO-I/O-SYSTEM.

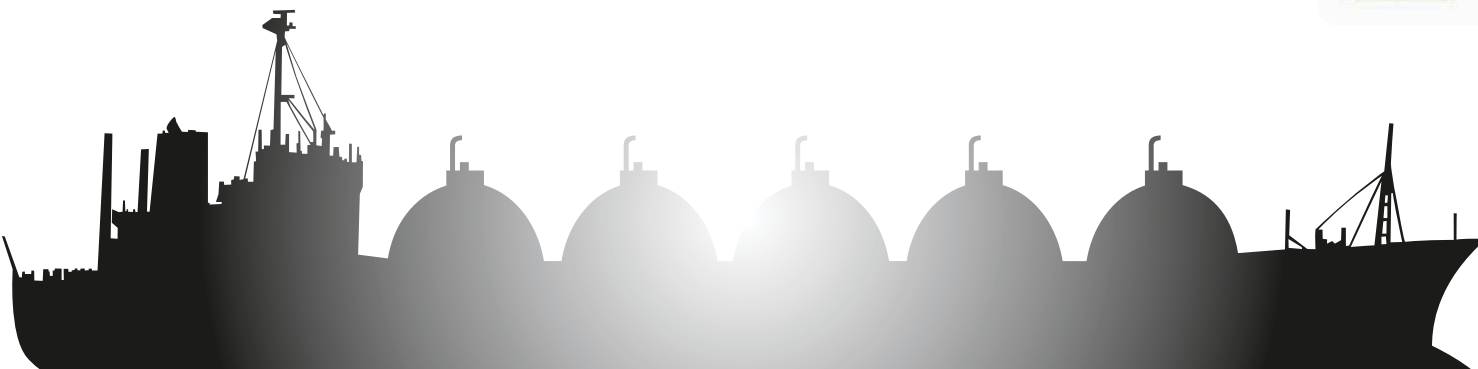


TOPJOB® S Rail-Mounted Terminal Blocks

- Large selection of I/O modules
- Ex and non-Ex signals in one single node
- Safe connections for all products
- Compact products



WAGO-I/O-SYSTEM



Oil & Gas

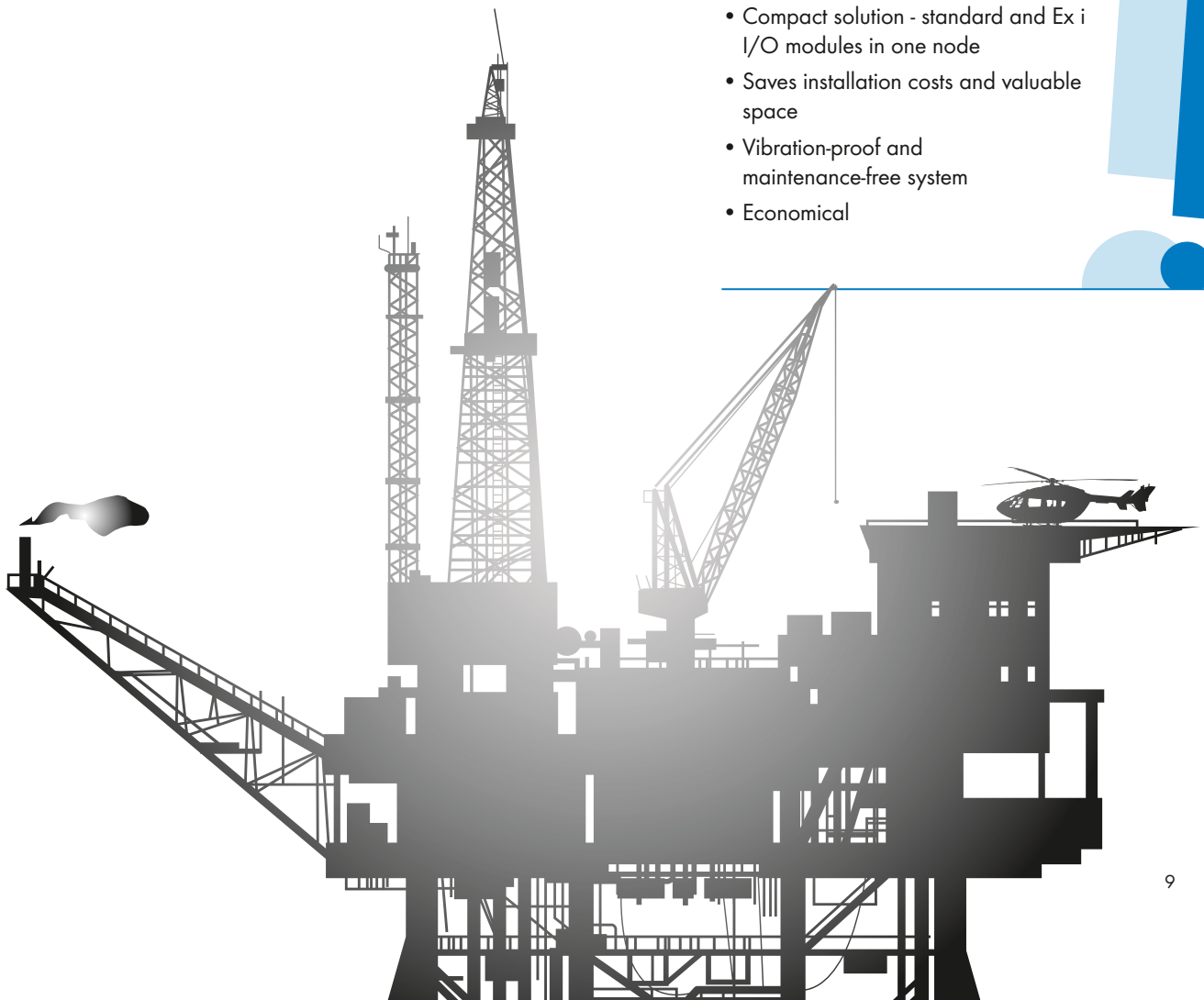
Automation of Drilling Rigs

Leading manufacturers of automatic drilling controls and monitoring systems use the WAGO control system as the key element of modern drilling rigs.

This control system is based on a series of common industrial computers that use the Windows platform. The WAGO I/O nodes are linked to the management level via PROFIBUS DP/V1. The interfaces (sensors, actuators, etc.) for the field level are installed in Zone 0 or 1 and linked directly to the WAGO-I/O-SYSTEM 750. Both the standard I/O modules and the Ex i I/O modules are installed on the same mounting rail in Zone 2. This configuration saves installation costs and valuable space.



- Compact solution - standard and Ex i I/O modules in one node
- Saves installation costs and valuable space
- Vibration-proof and maintenance-free system
- Economical



Petrochemical Processing



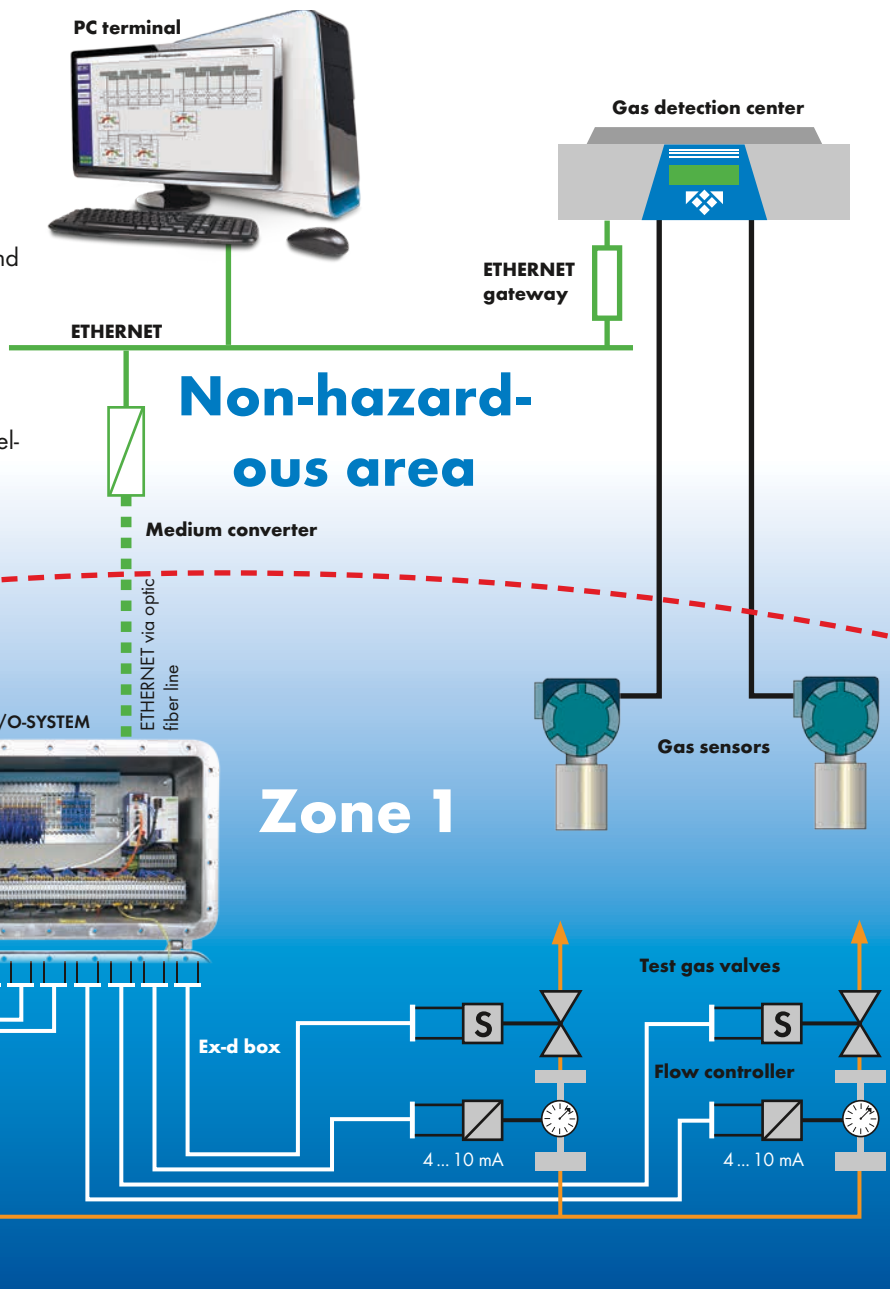
Testing and Calibration of Gas Detection Sensors

WAGO-I/O-SYSTEM 750 is the link between the field level and the testing/calibration terminal. For periodic testing of gas detection systems based on Information Sheet T 023 (BGI 518).

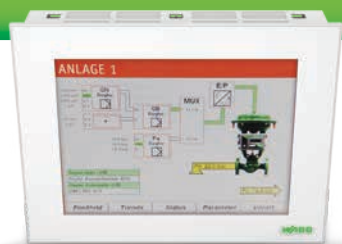
WAGO products used:

- Fieldbus Controller
ETHERNET TCP/IP, 750-880
- Ex-i and Non-Ex 750 Series I/O Modules

- Very compact (12 mm module width) and simple solution
- Ex i and standard modules in a single node
- Web visualization
- Support and service for application development



Power Supply



ETHERNET



Communication acc. to IEC 60870-5-104



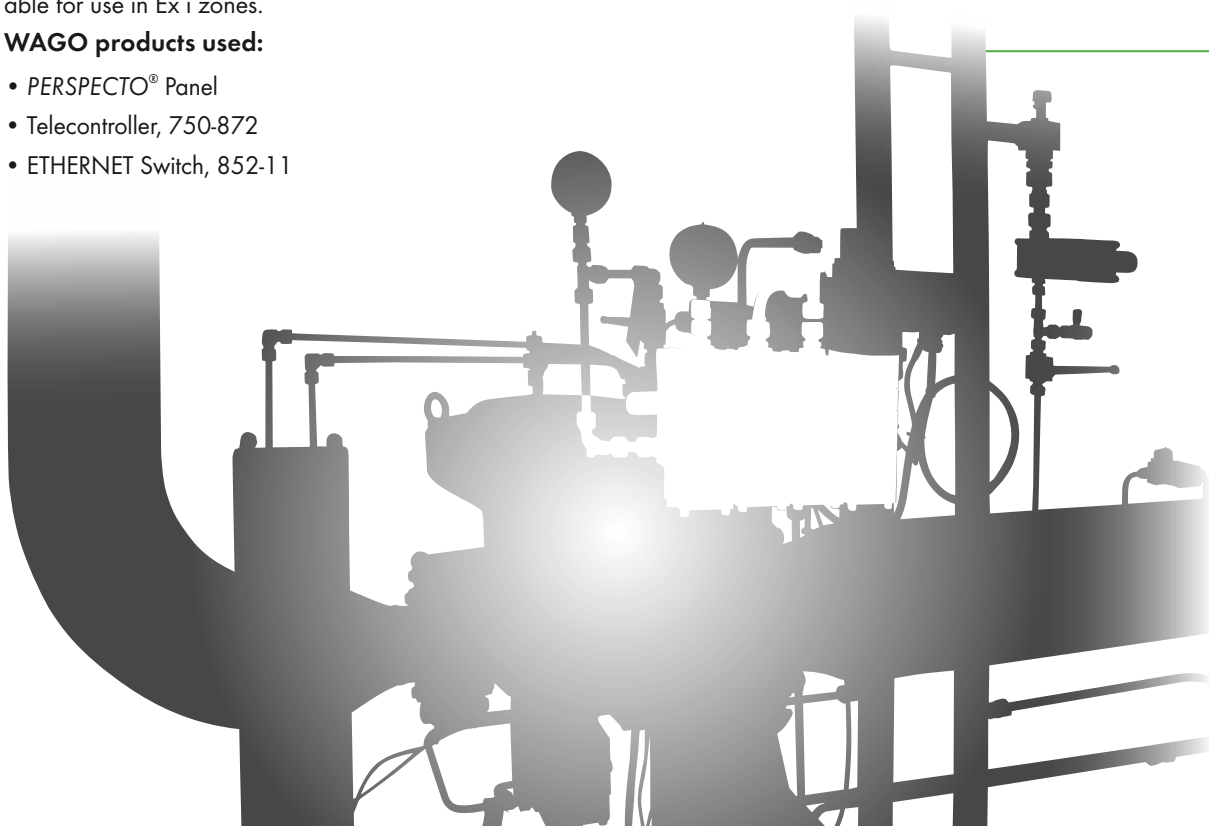
Telecontrol Technology for Gas Control Stations

Flow rates must be switched to the centralized control system of a gas supplier and, therefore, be transmitted according to the IEC 60 870-5-104 communication standard. In addition, the pumps must be switched using an on-site control system. The sensors are located in Ex Zone 1 and must be supplied via products suitable for use in Ex i zones.

WAGO products used:

- PERSPECTO® Panel
- Telecontroller, 750-872
- ETHERNET Switch, 852-11

- WAGO-I/O SYSTEM performs automation and telecontrol tasks
- It allows for direct connection of Ex signals
- It can be programmed according to IEC 61131-3
- The controller can be programmed as a software controller



Water Resource Management

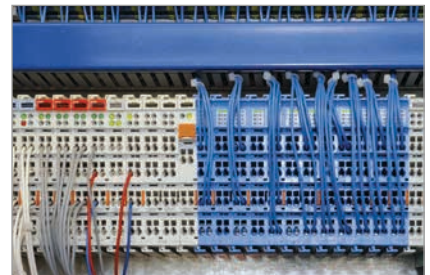
Filtering Plant

In wastewater treatment facilities, the challenges placed on interconnect and automation technology not only come from the harsh atmosphere, but also from its use in hazardous areas.

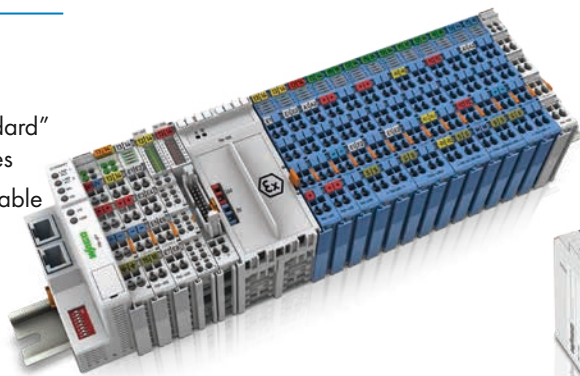
Dangerous and explosive mixtures, which represent a great hazard potential, can be created on unauthorized or accidental dumping of flammable to highly flammable fluids, such as gasoline, into the sewage system. The same applies to the liberation (out-gassing) of highly flammable methane and digester gases in screening buildings and digestion towers at the sewage treatment facility. Even during drying of sewage sludge, dangerous concentrations of dust can collect on

account of the structure and density of the sewage sludge.

The flexibility of the rail-mounted terminal block system and automation solutions is therefore of utmost importance both for the planners and for the operators of such facilities. With its rail-mounted terminal block system and WAGO-I/O-SYSTEM 750 automation solutions, WAGO offers the concept consistency for implementing both standard applications as well as solutions in hazardous areas.



- One node combines both "standard" and Ex i intrinsically safe modules
- Saves installation costs and valuable space
- Vibration-proof and maintenance-free system



Mechanical Engineering



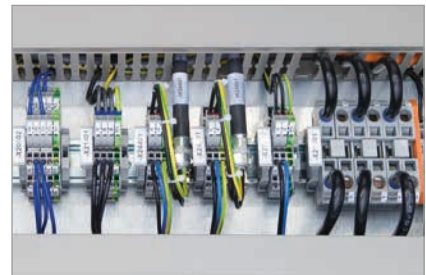
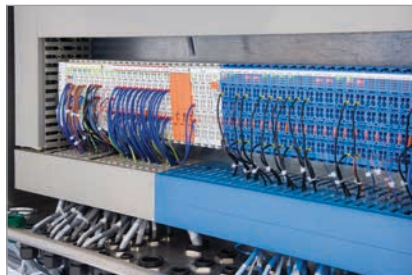
Packing and Filling

WAGO-I/O-SYSTEM:

Flexible meets flexible

When a machine had to be developed for filling deodorant sticks and for a quick change to other product formats, the WAGO-I/O-SYSTEM was called upon. In addition to its high degree of flexibility, fieldbus independence was a major highlight. The outcome of this development is a system that can accommodate nearly all of the standard seals on the market and is therefore used for filling of different products.

When filling deodorant sticks, for example, explosive gases are set free due to the volatile alcohol used. This also requires the use of intrinsically safe products for hazardous areas in the control system.



WAGO products used:

- WAGO-I/O-SYSTEM
- 870 Series Rail-Mounted Terminal Blocks with CAGE CLAMP® connection
- Connection via X-COM®-SYSTEM

- Quick format change of the system to other products for filling
- Use of ATEX-certified modules directly in Zones 1 and 0
- Fieldbus-independent WAGO-I/O-SYSTEM





Illustration	Description	Series	Technical Data	Certificate/Certificate Number	Degree of Protection
TOPJOB® S Rail-Mounted Terminal Blocks					
	TOPJOB® S Through/Ground Conductor Terminal Blocks	2000	0.14-1.5 mm ² (24-16 AWG), 550 V, 12 ^① -13 A 0.14-1.5 mm ² (24-16 AWG)	IECEX PTB 11.0093U PTB 11 ATEX 1041 U	Ex e I/II
	TOPJOB® S Through/Ground Conductor Terminal Blocks	2001	0.5 - 2.5 mm ² , 550 V, 17 A 0.5-2.5 mm ² (20-14 AWG)	IECEX PTB 05.0034U PTB 05 ATEX 094 U	Ex e I/II
	TOPJOB® S Through/Ground Conductor Terminal Blocks	2002	0.25-4 mm ² (22-12 AWG), 440-550 V, 20 ^① -22 A 0.25-4 mm ² (22-12 AWG)	IECEX PTB 03.0004U PTB 03 ATEX1162U	Ex e I/II
	TOPJOB® S Through/Ground Conductor Terminal Blocks	2004	0.5-6 mm ² (20-10 AWG), 550 V, 30 A 0.5-6 mm ² (20-10 AWG)	IECEX PTB 05.0033U PTB 05 ATEX 1095 U	Ex e I/II
	TOPJOB® S Through/Ground Conductor Terminal Blocks	2006	0.5-10 mm ² (20-8 AWG), 550 V, 33 ^① -38 A 0.5 - 10 mm ² (20-8 AWG)	IECEX PTB 05.0014U PTB 05 ATEX 1030 U	Ex e I/II
	TOPJOB® S Through/Ground Conductor Terminal Blocks	2010	0.5-16 mm ² (20-6 AWG), 550 V, 50 ^① -51 A 0.5-16 mm ² (20-6 AWG)	IECEX PTB 06.0003U PTB 05 ATEX 1070 U	Ex e I/II
	TOPJOB® S Through/Ground Conductor Terminal Blocks	2016	0.5-25 mm ² /20-4 AWG (25 mm ² /4 AWG "s" only), 550 V, 65 ^① -70 A 0.5-25 mm ² (20-4 AWG)	IECEX PTB 05.0015U PTB 05 ATEX1031 U	Ex e I/II
	TOPJOB® S Double-Deck Terminal Blocks 2-Conductor Through and Ground Conductor Terminal Block	2002 ^②	0.25-4 mm ² (22-12 AWG), 440 V, 18 ^① -20 A	IECEX PTB 03.0004U PTB 03 ATEX 1162 U	Ex e I/II
	TOPJOB® S Double-Deck Terminal Blocks 4-Conductor Through and Ground Conductor Terminal Block	2002 ^②	0.25-4 mm ² (22-12 AWG), 550 V, 16 ^① -21 A	ECEX PTB 03.0004U PTB 03 ATEX 1162 U	Ex e I/II
	TOPJOB® S Triple-Deck Terminal Blocks 2-Conductor Through and Ground Conductor Terminal Block	2002 ^②	0.25-4 mm ² (22-12 AWG), 440 V, 17 ^① -19 A	IECEX PTB 03.0004U PTB 03 ATEX 1162 U	Ex e I/II

①When used with a jumper





②May not be used as a shield terminal block in hazardous areas

Volume 1 – Rail-Mounted Terminal Block Systems

- Rail-Mounted Terminal Blocks
- Modular Pluggable Connectors
X-COM®-SYSTEM and X-COM®S-SYSTEM
- Patchboard Systems
- Terminal Strips
- PUSH WIRE® Connectors for Junction Boxes
- Lighting Connectors
- Shield (Screen) Connecting System

Volume 2 – PCB Terminal Blocks and Connectors

- PCB Terminal Blocks
- Feedthrough Terminal Blocks
- MULTI CONNECTION SYSTEM (MCS)
- Pluggable PCB Terminal Blocks
- Specialty Connectors

Illustration	Description	Series	Technical Data	Certificate/Certificate Number	Degree of Protection
X-COM®S-SYSTEM – Pluggable DIN-Rail Terminal Blocks					
	X-COM®S-SYSTEM 1-Conductor/1-Pin Carrier and Ground Conductor Terminal Block	2022	0.25–4 mm ² (22–12 AWG), 690 V, 20 A 0.25–4 mm ² (22–12 AWG)	PTB 12 ATEX 1004 U	Ex nA
	X-COM®S-SYSTEM 2-Conductor/1-Pin Carrier and Ground Conductor Terminal Block	2022	0.25–4 mm ² (22–12 AWG), 690 V, 20 A 0.25–4 mm ² (22–12 AWG)	PTB 12 ATEX 1004 U	Ex nA
	X-COM®S-SYSTEM 1-Conductor/1-Pin Double-Deck Terminal Block Carrier and Ground Conductor Terminal Block	2022	0.25–4 mm ² (22–12 AWG), 690 V, 20 A/①19 A 0.25–4 mm ² (22–12 AWG)	PTB 12 ATEX 1004 U	Ex nA
	X-COM®S-SYSTEM 1-Conductor Female Plug	2022	0.25–4 mm ² (22–12 AWG), 690 V, 20 A 0.25–4 mm ² (22–12 AWG)	PTB 12 ATEX 1004 U	Ex nA

①When used with a jumper

ELECTRICAL INTERCONNECTIONS



Illustration	Description	Series	Technical Data	Certificate/Certificate Number	Degree of Protection
Front-Entry, Rail-Mounted Terminal Blocks					
	2-Conductor Through Terminal Block	279-904	0.08-1.5 mm ² (28-16 AWG), 800 V, 18 A		Ex i
	3-Conductor Through Terminal Block	279-684	0.08-1.5 mm ² (28-16 AWG), 800 V, 18 A		Ex i
	4-Conductor Through Terminal Block	279-834	0.08-1.5 mm ² (28-16 AWG), 800 V, 18 A		Ex i
	2-Conductor Through Terminal Block	280-904	0.08-2.5 mm ² (28-14 AWG), 800 V, 18 A		Ex i
	3-Conductor Through Terminal Block	280-684	0.08-2.5 mm ² (28-14 AWG), 800 V, 24 A		Ex i
	3-Conductor Through Terminal Block	280-651	0.08-2.5 mm ² (28-14 AWG), 800 V, 24 A		Ex i
	4-Conductor Through Terminal Block	280-834	0.08-2.5 mm ² (28-14 AWG), 800 V, 20 A		Ex i
	4-Conductor Through Terminal Block	280-656	0.08-2.5 mm ² (28-14 AWG), 800 V, 24 A		Ex i
	2-Conductor Through Terminal Block	880-904/999-940	0.08-4 mm ² (28-12 AWG), 800 V, 25 A		Ex i
	3-Conductor Through Terminal Block	880-684/999-940	0.08-4 mm ² (28-12 AWG), 800 V, 25 A		Ex i

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- Modular Pluggable Connectors
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- Terminal Strips
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- MULTI CONNECTION SYSTEM (MCS)
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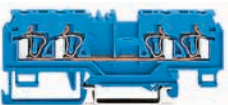

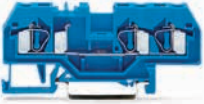




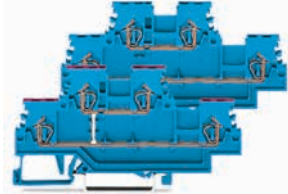

Illustration	Description	Series	Technical Data	Certificate/Certificate Number	Degree of Protection
	4-Conductor Through Terminal Block	880-834/999-940	0.08-4 mm ² (28-12 AWG), 800 V, 20 A		Ex i
	2-Conductor Through Terminal Block	281-904	0.08-4 mm ² (28-12 AWG), 800 V, 32 A		Ex i
	3-Conductor Through Terminal Block	281-684	0.08-4 mm ² (28-12 AWG), 800 V, 32 A		Ex i
	3-Conductor Through Terminal Block	281-651	0.08-4 mm ² (28-12 AWG), 800 V, 32 A		Ex i
	4-Conductor Through Terminal Block	281-654	0.08-4 mm ² (28-12 AWG), 800 V, 26 A		Ex i
	2-Conductor Through Terminal Block	282-904	0.2-6 mm ² (24-10 AWG), 800 V, 41 A		Ex i
	3-Conductor Through Terminal Block	282-684	0.2-6 mm ² (24-10 AWG), 800 V, 41 A		Ex i
	Double-Deck Terminal Blocks: Through/through connection, 4-Conductor Through Terminal Block	279-504 279-509	0.08-1.5 mm ² (28-16 AWG), 500 V, 18 A		Ex i
	Double-Deck Terminal Blocks: Through/through connection,	280-529	0.08-2.5 mm ² (28-14 AWG), 500 V, 20 A		Ex i



Illustration	Description	Series	Technical Data	Certificate/Certificate Number	Degree of Protection
4-Conductor Chassis-Mount Terminal Strips					
	2-pole, M3 screw	862-1552/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A	IECEX PTB 05.0003 U PTB 03 ATEX 1189 U	Ex e I/II
	2-pole, tapping screw	862-1562/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A		
	2-pole, with snap-in mounting foot	862-1532/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A		
	2-pole, M3 screw	862-1652/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A	IECEX PTB 05.0003 U PTB 03 ATEX 1189 U	Ex e I/II
	2-pole, tapping screw	862-1662/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A		
	2-pole, with snap-in mounting foot	862-1632/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A		
	3-pole, M3 screw	862-1503/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A	IECEX PTB 05.0003 U PTB 03 ATEX 1189 U	Ex e I/II
	3-pole, tapping screw	862-1533/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A		
	3-pole, with snap-in mounting foot	862-1593/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A		
	3-pole, M3 screw	862-1603/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A	IECEX PTB 05.0003 U PTB 03 ATEX 1189 U	Ex e I/II
	3-pole, tapping screw	862-1633/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A		
	3-pole, with snap-in mounting foot	862-1693/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A		
	4-pole, M3 screw	862-1504/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A	IECEX PTB 05.0003 U PTB 03 ATEX 1189 U	Ex e I/II
	4-pole, tapping screw	862-1534/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A		
	4-pole, with snap-in mounting foot	862-1594/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A		
	4-pole, M3 screw	862-1604/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A	IECEX PTB 05.0003 U PTB 03 ATEX 1189 U	Ex e I/II
	4-pole, tapping screw	862-1634/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A		
	4-pole, with snap-in mounting foot	862-1694/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A		
	5-pole, M3 screw	862-1505/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A	IECEX PTB 05.0003 U PTB 03 ATEX 1189 U	Ex e I/II
	5-pole, tapping screw	862-1535/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A		
	5-pole, with snap-in mounting foot	862-1595/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A		
	5-pole, M3 screw	862-1605/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A	IECEX PTB 05.0003 U PTB 03 ATEX 1189 U	Ex e I/II
	5-pole, tapping screw	862-1635/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A		
	5-pole, with snap-in mounting foot	862-1695/999-950	0.5 - 4 mm ² (20-12 AWG), 440 V, 28 A		

Volume 1 – Rail-Mounted Terminal Block Systems

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X-COM®-SYSTEM and X-COM®S-SYSTEM
- Patchboard Systems
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- Lighting Connectors
- Shield (Screen) Connecting System

Volume 2 – PCB Terminal Blocks and Connectors

- PCB Terminal Blocks
- Feedthrough Terminal Blocks
- MULTI CONNECTION SYSTEM (MCS)
- Pluggable PCB Terminal Blocks
- Specialty Connectors

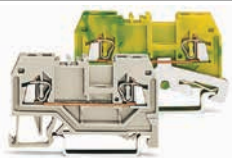
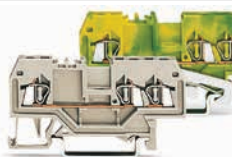
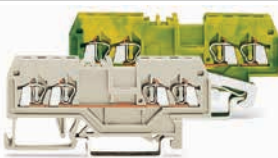
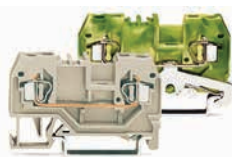




Illustration	Description	Series	Technical Data	Certificate/Certificate Number	Degree of Protection
Front-Entry, Rail-Mounted Terminal Blocks					
	2-Conductor Through Terminal Block	279-992	0.08 - 1.5 mm ² (28 - 16 AWG), 500 V, 15 A	PTB 00 ATEX 3113 U	Ex e I/II
	2-Conductor Ground Terminal Block	279-907/999-950	0.2 - 1.5 mm ² (24 - 16 AWG)		
	3-Conductor Through Terminal Block	279-993	0.08 - 1.5 mm ² (28 - 16 AWG), 500 V, 15 A	PTB 00 ATEX 3113 U	Ex e I/II
	3-Conductor Ground Terminal Block	279-687/999-950	0.2 - 1.5 mm ² (24 - 16 AWG)		
	4-Conductor Through Terminal Block	279-994	0.08 - 1.5 mm ² (28 - 16 AWG), 500 V, 15 A	PTB 00 ATEX 3113 U	Ex e I/II
	2-Conductor Ground Terminal Block	279-837/999-950	0.2 - 1.5 mm ² (24 - 16 AWG)		
	2-Conductor Through Terminal Block	280-992	0.2 - 2.5 mm ² (24 - 14 AWG), 550 V, 23 A	PTB 00 ATEX 3109 U	Ex e I/II
	2-Conductor Ground Terminal Block	280-907/999-950	0.2 - 2.5 mm ² (24 - 14 AWG)		
	3-Conductor Through Terminal Block	280-993	0.2 - 2.5 mm ² (24 - 14 AWG), 550 V, 22 A	PTB 00 ATEX 3109 U	Ex e I/II
	3-Conductor Ground Terminal Block	280-687/999-950	0.2 - 2.5 mm ² (24 - 14 AWG)		
	3-Conductor Through Terminal Block	280-998	0.2 - 2.5 mm ² (24 - 14 AWG), 550 V, 23 A	PTB 00 ATEX 3109 U	Ex e I/II
	3-Conductor Ground Terminal Block	280-637/999-950	0.2 - 2.5 mm ² (24 - 14 AWG)		
	4-Conductor Through Terminal Block	280-994	0.2 - 2.5 mm ² (24 - 14 AWG), 550 V, 20 A	PTB 00 ATEX 3109 U	Ex e I/II
	2-Conductor Ground Terminal Block	280-837/999-950	0.2 - 2.5 mm ² (24 - 14 AWG)		
	4-Conductor Through Terminal Block	280-996	0.2 - 2.5 mm ² (24 - 14 AWG), 550 V, 23 A	PTB 00 ATEX 3109 U	Ex e I/II



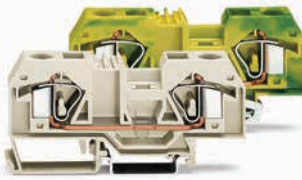


Illustration	Description	Series	Technical Data	Certificate/Certificate Number	Degree of Protection
Front-Entry, Rail-Mounted Terminal Blocks					
	2-Conductor Through Terminal Block	281-992	0.2-4 mm ² (24-12 AWG), 550 V, 30 A	PTB 00 ATEX 3110 U	Ex e I/II
	2-Conductor Ground Terminal Block	281-907/999-950	0.2-4 mm ² (24-12 AWG)		
	3-Conductor Through Terminal Block	281-993	0.2-4 mm ² (24-12 AWG), 550 V, 30 A	PTB 00 ATEX 3110 U	Ex e I/II
	3-Conductor Ground Terminal Block	281-687/999-950	0.2-4 mm ² (24-12 AWG)		
	3-Conductor Through Terminal Block	281-998	0.2-4 mm ² (24-12 AWG), 550 V, 30 A	PTB 00 ATEX 3110 U	Ex e I/II
	3-Conductor Ground Terminal Block	281-637/999-950	0.2-4 mm ² (24-12 AWG)		
	4-Conductor Through Terminal Block	281-994	0.2-4 mm ² (24-12 AWG), 550 V, 30 A	PTB 00 ATEX 3110 U	Ex e I/II
	2-Conductor Ground Terminal Block	281-657/999-950	0.2-4 mm ² (24-12 AWG)		
	2-Conductor Through Terminal Block	282-992	0.2-6 mm ² (24-10 AWG), 550 V, 39 A	PTB 98 ATEX 3131 U	Ex e I/II
	2-Conductor Ground Terminal Block	282-907/999-950	0.2 - 6 mm ² (24-10 AWG)		
	3-Conductor Through Terminal Block	282-993	0.2-6 mm ² (24-10 AWG), 550 V, 39 A	PTB 98 ATEX 3131 U	Ex e I/II
	3-Conductor Ground Terminal Block	282-687/999-950	0.2 - 6 mm ² (24-10 AWG)		
	2-Conductor Through Terminal Block	284-992	0.2-10 mm ² (24-8 AWG), 550 V, 53 A	PTB 98 ATEX 3133 U	Ex e I/II
	2-Conductor Ground Terminal Block	284-907/999-950	0.2-10 mm ² (24-8 AWG)		
	3-Conductor Through Terminal Block	284-993	0.2-10 mm ² (24-8 AWG), 550 V, 53 A	PTB 98 ATEX 3133 U	Ex e I/II
	3-Conductor Ground Terminal Block	284-687/999-950	0.2-10 mm ² (24-8 AWG)		

Volume 1 – Rail-Mounted Terminal Block Systems


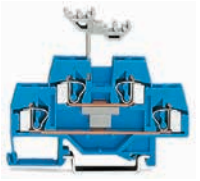
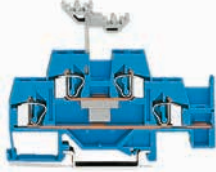
- Rail-Mounted Terminal Blocks
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X-COM[®]-SYSTEM and X-COM[®]S-SYSTEM
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Volume 2 – PCB Terminal Blocks and Connectors

- PCB Terminal Blocks
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- Specialty Connectors

Illustration	Description	Series	Technical Data	Certificate/Certificate Number	Degree of Protection
Front-Entry, Rail-Mounted Terminal Blocks					
	2-Conductor Through Terminal Block	283-992	0.2-16 mm ² (24-6 AWG), 550 V, 68 A	PTB 98 ATEX 3132 U	Ex e I/II
	2-Conductor Ground Terminal Block	283-907/999-950	0.2-16 mm ² (24-6 AWG)		
	3-Conductor Through Terminal Block	283-998	0.2-16 mm ² (24-6 AWG), 550 V, 68 A	PTB 98 ATEX 3132 U	Ex e I/II
	3-Conductor Ground Terminal Block	283-677/999-950	0.2-16 mm ² (24-6 AWG)		
	2-Conductor Through Terminal Block	285-992	6 - 35 mm ² (10-2 AWG), 880 V, 109 A	PTB 98 ATEX 3134 U	Ex e I/II

Front-Entry, Rail-Mounted Terminal Blocks

	Double-Deck Terminal Blocks: Through/through connection with horizontal jumper position	280-530	0.08-2.5 mm ² (28-14 AWG), 500 V, 20 A		Ex i
	Double-Deck Terminal Blocks: Through/through connection,	281-629	0.08-4 mm ² (28-12 AWG), 500 V, 26 A		Ex i
	Double-Deck Terminal Blocks: Through/through connection with horizontal jumper position	281-630	0.08-4 mm ² (28-12 AWG), 500 V, 26 A		Ex i

ELECTRICAL INTERCONNECTIONS



Illustration	Description	Series	Technical Data	Certificate/Certificate Number	Degree of Protection
Front-Entry, Rail-Mounted Terminal Blocks					
	2-Conductor Disconnect and Test Terminal Blocks	280-876	0.08-2.5 mm ² (28-14 AWG), 400 V, 16 A		Ex i
	4-Conductor Disconnect/ Test Terminal Blocks	280-885	0.08-2.5 mm ² (28-14 AWG), 400 V, 16 A		Ex i
Compact Rail-Mounted Terminal Blocks					
	2-Conductor Through Terminal Blocks	870-904	0.08-2.5 mm ² (28-14 AWG), 500 V, 24 A		Ex i
	2-Conductor Through Terminal Blocks DIN 15 carrier rail	870-914	0.08-2.5 mm ² (28-14 AWG), 500 V, 24 A		Ex i
	3-Conductor Through Terminal Blocks	870-684	0.08-2.5 mm ² (28-14 AWG), 500 V, 24 A		Ex i
	2-Conductor Through Terminal Blocks	870-909	0.2-4 mm ² (24-12 AWG), 440 V, 22 A	IECEX PTB 04.0018U	Ex e I/II
	2-Conductor Ground Terminal Block	870-907/999-950	0.2-4 mm ² (24-12 AWG)	PTB 03 ATEX 1188 U	
	2-Conductor Through Terminal Blocks DIN 15 carrier rail	870-919	0.2-4 mm ² (24-12 AWG), 440 V, 22 A	IECEX PTB 04.0018U PTB 03 ATEX 1188 U	Ex e I/II

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Illustration	Description	Series	Technical Data	Certificate/Certificate Number	Degree of Protection
TOPJOB® Classic Rail-Mounted Terminal Blocks, 35° Front-Entry					
	TOPJOB® Classic 2-Conductor Through Terminal Block	780-604	0.08 - 2.5 mm ² (28-14 AWG), 1000 V, 16 A		Ex i
	TOPJOB® Classic 3-Conductor Through Terminal Block	780-651	0.08 - 2.5 mm ² (28-14 AWG), 1000 V, 16 A		Ex i
	TOPJOB® Classic 2-Conductor Through Terminal Block	781-604	0.08 - 4 mm ² (28-12 AWG), 1000 V, 32 A		Ex i
	TOPJOB® Classic 3-Conductor Through Terminal Block	781-651	0.08 - 4 mm ² (28-12 AWG), 1000 V, 32 A		Ex i
	TOPJOB® Classic 2-Conductor Through Terminal Block	782-604	0.2 - 6 mm ² (24-10 AWG), 1000 V, 41 A		Ex i
	TOPJOB® Classic 2-Conductor Through Terminal Block	784-604	0.2 - 10 mm ² (24-8 AWG), 1000 V, 57 A		Ex i
	TOPJOB® Classic 2-Conductor Through Terminal Block	783-604	0.2-16 mm ² (24-6 AWG), 1000 V, 76 A		Ex i
	TOPJOB® Classic 2-Conductor Through Terminal Block	785-604	6 - 35 mm ² (10-2 AWG), 1000 V, 125 A		Ex i



Illustration	Description	Series	Technical Data	Certificate/Certificate Number	Degree of Protection
TOPJOB® Classic Rail-Mounted Terminal Blocks, 35° Front-Entry					
	TOPJOB® Classic 2-Conductor Through Terminal Block	780-992	0.2-2.5 mm ² (24-14 AWG), 750 V, 23 A	PTB 00 ATEX 3128 U	Ex e I/II
	2-Conductor Ground Terminal Block	780-607/999-950	0.2-2.5 mm ² (24-14 AWG)		
	TOPJOB® Classic 3-Conductor Through Terminal Block	780-993	0.2-2.5 mm ² (24-14 AWG), 750 V, 23 A	PTB 00 ATEX 3128 U	Ex e I/II
	3-Conductor Ground Terminal Block	780-637/999-950	0.2-2.5 mm ² (24-14 AWG)		
	TOPJOB® Classic 2-Conductor Through Terminal Block	781-992	0.2-4 mm ² (24-12 AWG), 750 V, 30 A	PTB 00 ATEX 3129 U	Ex e I/II
	2-Conductor Ground Terminal Block	781-607/999-950	0.2-4 mm ² (24-12 AWG)		
	TOPJOB® Classic 3-Conductor Through Terminal Block	781-993	0.2-4 mm ² (24-12 AWG), 750 V, 27 A	PTB 00 ATEX 3129 U	Ex e I/II
	3-Conductor Ground Terminal Block	781-637/999-950	0.2-4 mm ² (24-12 AWG)		
	TOPJOB® Classic 2-Conductor Through Terminal Block	782-992	0.2-6 mm ² (24-10 AWG), 750 V, 39 A	PTB 00 ATEX 3130 U	Ex e I/II
	2-Conductor Ground Terminal Block	782-607/999-950	0.2 - 6 mm ² (24-10 AWG)		
	TOPJOB® Classic 2-Conductor Through Terminal Block	784-992	0.2-10 mm ² (24-8 AWG), 690 V, 53 A	PTB 00 ATEX 2132 U	Ex e I/II
	2-Conductor Ground Terminal Block	784-607/999-950	0.2-10 mm ² (24-8 AWG)		
	TOPJOB® Classic 2-Conductor Through Terminal Block	783-992	0.5-16 mm ² (20-6 AWG), 750 V, 68 A	PTB 00 ATEX 3131 U	Ex e I/II
	2-Conductor Ground Terminal Block	783-607/999-950	0.5-16 mm ² (20-6 AWG)		

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Illustration	Description	Series	Technical Data	Certificate/Certificate Number	Degree of Protection
Modular Terminal Blocks					
	2-Conductor Center Terminal Block	264-324	0.08–2.5 mm ² (28–14 AWG), 800 V, 24 A		Ex i
	2-Conductor End Terminal Block with Fixing Flange	264-304			
	4-Conductor Center Terminal Block	264-354	0.08–2.5 mm ² (28–14 AWG), 800 V, 24 A		Ex i
	4-Conductor End Terminal Block with Fixing Flange	264-334			
	2-Conductor Terminal Block with Snap-In Mounting Foot	264-314	0.08–2.5 mm ² (28–14 AWG), 800 V, 24 A		Ex i
	4-Conductor Terminal Block with Snap-In Mounting Foot	264-344	0.08–2.5 mm ² (28–14 AWG), 800 V, 24 A		Ex i
	2-Conductor Terminal Block with Fixing Flange	262-304	0.08–4 mm ² (28–12 AWG), 630 V, 24 A		Ex i
	2-Conductor Terminal Block with Snap-In Mounting Foot	262-314	0.08–4 mm ² (28–12 AWG), 630 V, 24 A		
	2-Conductor End Terminal Block	262-324	0.08–4 mm ² (28–12 AWG), 630 V, 24 A		
	4-Conductor Terminal Block with Fixing Flange	262-334	0.08 – 4 mm ² (28–12 AWG), 630 V, 32 A		Ex i
	4-Conductor Terminal Block with Snap-In Mounting Foot	262-344	0.08 – 4 mm ² (28–12 AWG), 630 V, 32 A		
	4-Conductor End Terminal Block	262-354	0.08 – 4 mm ² (28–12 AWG), 630 V, 32 A		
	2-Conductor Center Terminal Block	264-131	0.2–2.5 mm ² (24–14 AWG), 690 V, 23 A	IECEX PTB 04.0003U	Ex e I/II
	2-Conductor End Terminal Block with Fixing Flange	264-130	0.2–2.5 mm ² (24–14 AWG), 690 V, 23 A	PTB 98 ATEX 3129 U	
	4-Conductor Center Terminal Block	264-231	0.2–2.5 mm ² (24–14 AWG), 690 V, 23 A	IECEX PTB 04.0003U	Ex e I/II
	4-Conductor End Terminal Block with Fixing Flange	264-230	0.2–2.5 mm ² (24–14 AWG), 690 V, 23 A	PTB 98 ATEX 3129 U	
	2-Conductor Terminal Block with Snap-In Mounting Foot	264-180	0.5–2.5 mm ² (20–14 AWG), 690 V, 23 A	IECEX PTB 04.0003U PTB 98 ATEX 3129 U	Ex e I/II
	4-Conductor Terminal Block with Snap-In Mounting Foot	264-280	0.5–2.5 mm ² (20–14 AWG), 690 V, 23 A	IECEX PTB 04.0003U PTB 98 ATEX 3129 U	Ex e I/II

ELECTRICAL INTERCONNECTIONS



Illustration	Description	Series	Technical Data	Certificate/Certificate Number	Degree of Protection
	4-Conductor Terminal Strip with Fixing Flange	264-132...142	0.5-2.5 mm ² (20-14 AWG), 690 V, 23 A	IECEX PTB 04.0003U	Ex e I/II
	4-Conductor Terminal Strip with Snap-In Mounting Foot	264-182...192	0.5-2.5 mm ² (20-14 AWG), 690 V, 23 A	PTB 98 ATEX 3129 U	
	4-Conductor Terminal Strip with Fixing Flange	264-232...242	0.5-2.5 mm ² (20-14 AWG), 690 V, 23 A	IECEX PTB 04.0003U	Ex e I/II
	4-Conductor Terminal Strip with Snap-In Mounting Foot	264-282...292	0.5-2.5 mm ² (20-14 AWG), 690 V, 23 A	PTB 98 ATEX 3129 U	
	2-Conductor Terminal Block with Fixing Flange	262-130	0.2-4 mm ² (24-12 AWG), 550 V, 23 A	IECEX PTB 04.0004U	Ex e I/II
	2-Conductor Terminal Block with Snap-In Mounting Foot	262-180	0.2-4 mm ² (24-12 AWG), 550 V, 23 A	PTB 98 ATEX 3125 U	
	2-Conductor End Terminal Block	262-181	0.2-4 mm ² (24-12 AWG), 550 V, 23 A		
	4-Conductor Terminal Block with Fixing Flange	262-230	0.2-4 mm ² (24-12 AWG), 550 V, 23 A	IECEX PTB 04.0004U	Ex e I/II
	4-Conductor Terminal Block with Snap-In Mounting Foot	262-280	0.2-4 mm ² (24-12 AWG), 550 V, 23 A	PTB 98 ATEX 3125 U	
	4-Conductor End Terminal Block	262-281	0.2-4 mm ² (24-12 AWG), 550 V, 23 A		
	4-Conductor Terminal Strip with Fixing Flange	262-132...142	0.2-4 mm ² (24-12 AWG), 550 V, 23 A	IECEX PTB 04.0004U	Ex e I/II
	4-Conductor Terminal Strip with Snap-In Mounting Foot	262-182...192	0.2-4 mm ² (24-12 AWG), 550 V, 23 A	PTB 98 ATEX 3125 U	
	4-Conductor Terminal Strip with Fixing Flange	262-232...242	0.2-4 mm ² (24-12 AWG), 550 V, 30 A	IECEX PTB 04.0004U	Ex e I/II
	4-Conductor Terminal Strip with Snap-In Mounting Foot	262-232...292	0.2-4 mm ² (24-12 AWG), 550 V, 30 A	PTB 98 ATEX 3125 U	

High-Current Rail-Mounted Terminal Blocks



POWER CAGE CLAMP
2-Conductor Through Terminal Block

285-995

25 - 95 mm² (4-4/0 AWG), 880 V, 211 A

PTB 98 ATEX 3134 U Ex e I/II



2-Conductor Ground Terminal Block

285-197/999-950

35-70 mm² (2-1 AWG)

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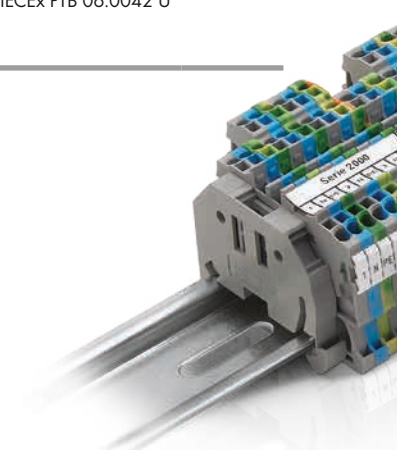
Illustration	Description	Series	Technical Data	Certificate/Certificate Number	Degree of Protection
Ex PUSH WIRE® Connectors for Junction Boxes, 773 Series					
	2-Wire Connector	773-492	0.75–2.5 mm ² (18–14 AWG), "s", 550 V [Ⓢ] , 24 A may only be used together with 773-331 mounting carrier	DEMKO 03 ATEX 131845 U	Ex e I/II
	4-Wire Connector	773-494	0.75–2.5 mm ² (18–14 AWG), "s", 550 V [Ⓢ] , 24 A may only be used together with 773-331 mounting carrier	DEMKO 03 ATEX 131845 U	Ex e I/II
	6-Wire Connector	773-496	0.75–2.5 mm ² (18–14 AWG), "s", 550 V [Ⓢ] , 24 A may only be used together with 773-331 mounting carrier	DEMKO 03 ATEX 131845 U	Ex e I/II
	8-Wire Connector	773-498	0.75–2.5 mm ² (18–14 AWG), "s", 550 V [Ⓢ] , 24 A may only be used together with 773-331 mounting carrier	DEMKO 03 ATEX 131845 U	Ex e I/II
	3-Wire Connector	773-493	2.5–6 mm ² (14–10 AWG), "s", 550 V [Ⓢ] , 42 A may only be used together with 773-331 mounting carrier	DEMKO 03 ATEX 131845 U	Ex e I/II

Illustration	Description	Series	Technical Data	Certificate/Certificate Number	Degree of Protection
Mounting Carrier					
		773-331		DEMKO 03 ATEX 131845 U	Ex e I/II

AUTOMATION



Illustration	Description	Series	Technical Data	Certificate/Certificate Number	Degree of Protection
	PCB Terminal Blocks	236 Series	0.08 - 2.5 mm ² (28-14 AWG), 176 - 440 V, 16 A	PTB 06 ATEX 1061U IECEX PTB 06.0042 U	Ex e II
	PCB Terminal Blocks	745 Series	0.08 - 4 mm ² (28-14 AWG), 176 - 440 V, 27 A	PTB 06 ATEX 1014U IECEX PTB 06.0039 U	Ex e II
	PCB Terminal Blocks	745 Series	0.2 - 6 mm ² (24-10 AWG) , 275 - 440 V, 37 A	PTB 06 ATEX 1014U IECEX PTB 06.0039 U	Ex e II
	PCB Terminal Blocks	745 Series	0.2-16 mm ² (24-6 AWG), 220-690 V, 71 A	PTB 06 ATEX 1014U IECEX PTB 06.0039 U	Ex e II
	PCB Terminal Blocks	255 Series	0.08 - 2.5 mm ² (28-14 AWG), 176 - 440 V, 16 A	PTB 06 ATEX 1061U IECEX PTB 06.0042 U	Ex e II
	PCB Terminal Blocks	256 Series	0.08-2.5 mm ² (28-14 AWG), 176-275 V, 16 A	PTB 06 ATEX 1061U IECEX PTB 06.0042 U	Ex e II
	PCB Terminal Blocks	257 Series	0.08 - 2.5 mm ² (28-14 AWG), 176 - 440 V, 16 A	PTB 06 ATEX 1061U IECEX PTB 06.0042 U	Ex e II

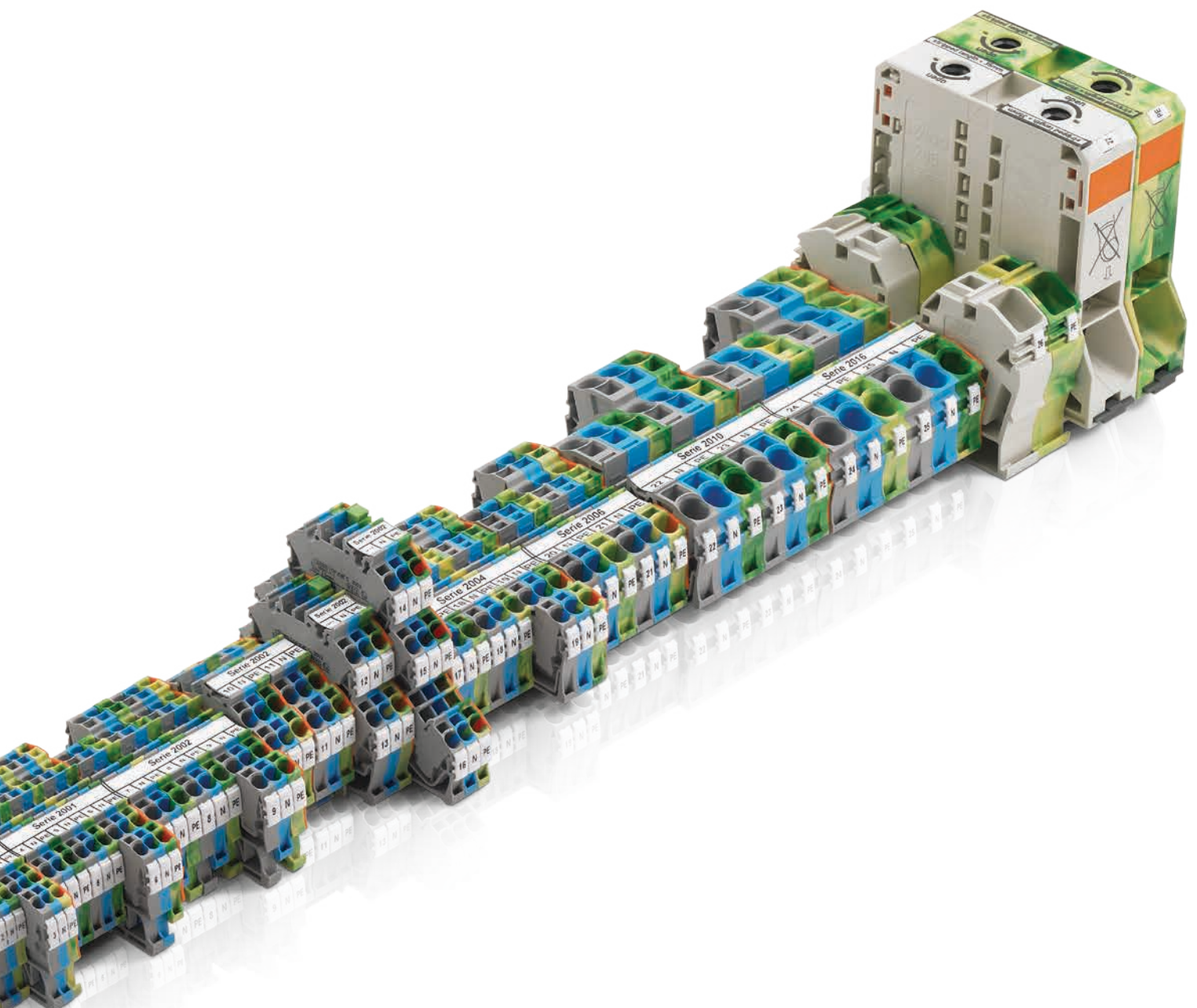


Volume 1 – Rail-Mounted Terminal Block Systems

- Rail-Mounted Terminal Blocks
- Modular Pluggable Connectors
X-COM®-SYSTEM and X-COM®S-SYSTEM
- Patchboard Systems
- Terminal Strips
- PUSH WIRE® Connectors for Junction Boxes
- Lighting Connectors
- Shield (Screen) Connecting System

Volume 2 – PCB Terminal Blocks and Connectors

- PCB Terminal Blocks
- Feedthrough Terminal Blocks
- MULTI CONNECTION SYSTEM (MCS)
- Pluggable PCB Terminal Blocks
- Specialty Connectors



AUTOMATION



All 750 Series I/O modules can be used in the standard ambient temperature range of 0 °C to 55 °C.
I/O modules with ATEX/IECEx approvals can be used in an ambient temperature range of 0 °C to 60 °C.

Illustration	Item No.	Description	Approval		
			ANSI/ISA 12.12.01 Class I, Div 2, ABCD File E198726	ATEX Group I/II -TUV 07 ATEX 554086 X -TUV 12 ATEX 106032 X	IECEx Group I/II -TUV TUN 09.0001X -TUV TUN 12.0039X

Intrinsically Safe I/O Modules



750-606	24 VDC Power Supply, Diagnostics, Ex i	x	Ex [ia]
750-625/000-001	24 VDC Power Supply, Ex i	x	Ex [ia]
750-435	1 DI NAMUR Ex i	x	Ex [ia]
750-438	2 DI NAMUR, Ex i	x	Ex [ia]
750-439	8 DI NAMUR, Ex i		Ex [ia]
750-663/000-003	4 F Ex i DI 24 V, PROFIsafe V2 iPar		Ex [ia]
750-535	2 DO 24 V DC Ex i	x	Ex [ib]
750-538	2 DO RELAY, Ex i		Ex [ia]
750-484	2 AI 4-20 mA, HART, Ex i	x	Ex [ia]
750-485	2 AI 4-20 mA, Ex i	x	Ex [ib]
750-481/003-000	2 AI RTD Ex i	x	Ex [ia]
750-487/003-000	2 AI TC Ex i	x	Ex [ia]
750-585	2 AO 0-20 mA, Ex i	x	Ex [ia]
750-586	2 AO 4-20 mA, Ex i		Ex [ia]
750-633	Up/Down Counter Ex i	x	Ex [ia]

Volume 3 – I/O-SYSTEM

- Modular I/O Systems, IP20
- Radio Technology, TO-PASS® Telecontrol Technology
- Industrial Switches, PERSPECTO®
- Modular I/O-SYSTEM, IP67, Block I/O-SYSTEM, IP67
- Sensor/Actuator Boxes, IP67, Cables and Connectors, IP67
- Power Supplies

Volume 4 – Interface Modules

- Relays – Optocouplers – Specialty Functions
- Interface Modules
- Transducers
- Power Supplies
- Overvoltage Protection
- Radio Technology
- Empty Housings and DIN-Rail Mounting Carriers

All 750 Series I/O modules can be used in the standard ambient temperature range of 0 °C to 55 °C.
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			ANSI/ISA 12.12.01 Class I, Div 2, ABCD File E198726	ATEX Group I/II -TUV 07 ATEX 554086 X -TUV 12 ATEX 106032 X	IECEX Group I/II -TUV TUN 09.0001X -TUV TUN 12.0039X

Fail-Safe I/O Modules



750-660/000-001	8 FDI 24 VDC, PROFIsafe V1.3	x	Ex n
750-665/000-001	4 FDI / 4 FDO 24 VDC, 0.5 A, PROFIsafe V1.3	x	Ex n
750-661/000-003	4 FDI 24 V, PROFIsafe V2 iPar	x	Ex n
750-662/000-003	8 FDI 24 V, PROFIsafe V2 iPar	x	Ex n
750-666/000-003	4 FDI / 2 FDO 24 V, 10 A, PROFIsafe V2 iPar		Ex n
750-667/000-003	4 FDI / 4 FDO 24 V, 2 A, PROFIsafe V2 iPar	x	Ex n
750-663/000-003	4 F Ex i DI 24 V, PROFIsafe V2 iPar		Ex [ia]

AUTOMATION



All 750 Series I/O modules can be used in the standard ambient temperature range of 0 °C to 55 °C.
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PLC – Programmable Fieldbus Controllers



750-884	Application		Ex n
750-830	BACnet/IP	x	Ex n
750-838	CANopen, D-Sub	x	Ex n
750-837	CANopen, MCS	x	Ex n
750-806	DeviceNet	x	Ex n
750-880	ETHERNET SD	x	Ex n
750-881	ETHERNET	x	Ex n
750-882	ETHERNET MR	x	Ex n
750-885	ETHERNET MR/SD		Ex n
750-871	ETHERNET TCP/IP, 2 Ports	x	Ex n
750-873	ETHERNET TCP/IP, RS-232	x	Ex n
750-842	ETHERNET, 10 Mbit/s, 128 kbytes	x	Ex n
750-843	ETHERNET, 10 Mbit/s, 64 kbytes	x	Ex n
750-872	Telecontrol RJ-45 + D-Sub	x	Ex n
750-849	KNX IP	x	Ex n
750-819	LonWorks®	x	Ex n

Volume 3 – I/O-SYSTEM

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- Power Supplies

Volume 4 – Interface Modules

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- Radio Technology
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All 750 Series I/O modules can be used in the standard ambient temperature range of 0 °C to 55 °C.
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			ANSI/ISA 12.12.01 Class I, Div 2, ABCD File E198726	ATEX Group I/II -TÜV 07 ATEX 554086 X -TÜV 12 ATEX 106032 X	IECEX Group I/II -TÜV TUN 09.0001X -TÜV TUN 12.0039X
PLC – Programmable Fieldbus Controllers					
	750-816	MODBUS, RS-232, 1.2-115.2 kbaud	x		Ex n
	750-815	MODBUS, RS-485, 1.2-115.2 kbaud	x		Ex n
	750-833	PROFIBUS-DP/V1	x		Ex n

AUTOMATION



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			ANSI/ISA 12.12.01 Class I, Div 2, ABCD File E198726	ATEX Group I/II -TUV 07 ATEX 554086 X -TUV 12 ATEX 106032 X IECEx Group I/II -TUV TUN 09.0001X -TUV TUN 12.0039X

Fieldbus Couplers



750-307	CANopen	x	Ex n
750-348	CANopen ECO	x	Ex n
750-347	CANopen ECO, MCS	x	Ex n
750-338	CANopen, D-Sub	x	Ex n
750-337	CANopen, MCS	x	Ex n
750-310	CC Link	x	Ex n
750-306	DeviceNet	x	Ex n
750-346	DeviceNet ECO	x	Ex n
750-354	EtherCAT®	x	Ex n
750-342	ETHERNET TCP/IP, 10 Mbit/s	x	Ex n
750-352	ETHERNET TCP/IP, 10/100 Mbit/s	x	Ex n
750-319	LonWorks®	x	Ex n
750-316	MODBUS, RS-232, 1.2-115.2 kbaud	x	Ex n
750-315	MODBUS, RS-485, 1.2-115.2 kbaud	x	Ex n
750-343	PROFIBUS DP ECO, 12 Mbaud	x	Ex n
750-303	PROFIBUS DP/FMS, 12 Mbaud	x	Ex n

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Fieldbus Couplers				
	750-333	PROFIBUS DP/V1, 12 Mbaud	x	Ex n
	750-370	PROFINET IO, 100 Mbit, 2-Port	x	Ex n
	750-351	sercos III	x	Ex n

AUTOMATION



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Digital Input Modules



750-401	2 DI 24 VDC, 0.2 ms	x	Ex n
750-411	2 DI 24 VDC, 0.2 ms, Proximity Switch	x	Ex n
750-400	2 DI 24 VDC, 3.0 ms	x	Ex n
750-418	2 DI 24 VDC, 3.0 ms, Diagnostics, Acknowledgement	x	Ex n
750-410	2 DI 24 VDC, 3.0 ms, Proximity Switch	x	Ex n
750-421	2 DI 24 VDC, Diagnostics	x	Ex n
750-424	2 DI 24 VDC, Intruder Detection	x	Ex n
750-422	2 DI 24 VDC, Pulse Extension	x	Ex n
750-412	2 DI 48 VDC, 3.0 ms	x	Ex n
750-427	2 DI 110 V DC	x	Ex n
750-406	2 DI 120 VAC	x	Ex n
750-405	2 DI 230 V AC	x	Ex n
750-425	2 DI NAMUR	x	Ex n
750-414	4 DI 5 VDC, 0.2 ms	x	
750-415	4 DI 24 V AC/DC, 20 ms	x	Ex n
750-423	4 DI 24 V AC/DC, 50 ms, Power Jumper Contacts	x	Ex n

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Digital Input Modules



750-403	4 DI 24 VDC, 0.2 ms	x	Ex n
750-433	4 DI 24 VDC, 0.2 ms, 2-Wire	x	Ex n
750-1423	4 DI 24 VDC, 0.2 ms, 3-Wire, Low-Side Switching	x	Ex n
750-1421	4 DI 24 VDC, 0.2 ms, 3-Wire, High-Side Switching	x	Ex n
750-409	4 DI 24 VDC, 0.2 ms, Low-Side Switching	x	Ex n
750-432	4 DI 24 VDC, 3.0 ms	x	Ex n
750-1422	4 DI 24 VDC, 3.0 ms, 3-Wire, Low-Side Switching	x	Ex n
750-1420	4 DI 24 VDC, 3.0 ms, 3-Wire, High-Side Switching	x	Ex n
750-408	4 DI 24 VDC, 3.0 ms, Low-Side Switching	x	Ex n
750-402	4 DI 24 VDC, 3.0 ms, High-Side Switching	x	Ex n
750-428	4 DI 42 V AC/DC 20 ms	x	Ex n
750-437	8 DI 24 VDC, 0.2 ms, 1-Wire, Low-Side Switching	x	Ex n
750-431	8 DI 24 VDC, 0.2 ms, 1-Wire, High-Side Switching	x	Ex n
750-1418	8 DI 24 VDC, 0.2 ms, 2-Wire, Low-Side Switching	x	
750-1416	8 DI 24 VDC, 0.2 ms, 2-Wire, High-Side Switching	x	Ex n
750-436	8 DI 24 VDC, 3.0 ms, 1-Wire, Low-Side Switching	x	Ex n



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			ANSI/ISA 12.12.01 Class 1, Div 2, ABCD File E198726 ATEX Group I/II -TÜV 07 ATEX 554086 X -TÜV 12 ATEX 106032 X IECEx Group I/II -TÜV TUN 09.0001 X -TÜV TUN 12.0039 X

Digital Input Modules



750-430	8 DI 24 VDC, 3.0 ms, 1-Wire, High-Side Switching	x	Ex n
750-1417	8 DI 24 VDC, 3.0 ms, 2-Wire, Low-Side Switching	x	Ex n
750-1415	8 DI 24 VDC, 3.0 ms, 2-Wire, High-Side Switching	x	Ex n
750-1406	16 DI 24 VDC, 0.2 ms		Ex n
750-1402	4 DI 24 VDC, 3.0 ms, Ribbon Cable, Low-Side Switching	x	Ex n
750-1400	16 DI 24 VDC, 3.0 ms, Ribbon Cable, High-Side Switching	x	Ex n
750-1407	16 DI 24 VDC, 3.0 ms, Low-Side Switching	x	Ex n
750-1405	16 DI 24 VDC, 3.0 ms, High-Side Switching	x	Ex n

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Digital Output Modules



750-501	2 DO 24 VDC, 0.5 A	x	Ex n
750-506	2 DO 24 VDC, 0.5 A, Diagnostics	x	Ex n
750-502	2 DO 24 VDC, 2.0 A	x	Ex n
750-508	2 DO 24 VDC, 2.0 A, Diagnostics	x	Ex n
750-509	2 DO 230 VAC, 0.3 A, SSR	x	Ex n
750-517	2 DO 230 V AC, 1.0 A, Relay 2 CO, Potential-Free	x	Ex n
750-512	2 DO 230 VAC, 2.0 A, Relay 2 NO	x	Ex n
750-513	2 DO 230 VAC, 2.0 A, Relay 2 NO, Potential-Free	x	Ex n
750-522	2 DO 230 VAC, 3.0 A, 30 s, SSR	x	Ex n
750-519	4 DO 5 VDC, 20 mA	x	
750-504	4 DO 24 VDC, 0.5 A	x	Ex n
750-531	4 DO 24 VDC, 0.5 A, 2-Wire	x	Ex n
750-532	4 DO 24 VDC, 0.5 A, Diagnostics	x	Ex n
750-516	4 DO 24 VDC, 0.5 A, Low-Side Switching	x	Ex n
750-534	8 DO 5/14 VDC	x	Ex n
750-530	8 DO 24 VDC, 0.5 A, High-Side Switching	x	Ex n

AUTOMATION



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Digital Output Modules



750-536	8 DO 24 VDC, 0.5 A, Low-Side Switching	x	Ex n
750-1515	8 DO 24 VDC, 0.5 A, 2-Wire, High-Side Switching	x	Ex n
750-537	8 DO 24 VDC, 0.5 A, Diagnostics	x	Ex n
750-1516	8 DO 24 VDC, 0.5 A, Low-Side Switching	x	Ex n
750-1504	16 DO 24 VDC, 0.5 A	x	Ex n
750-1500	16 DO 24 VDC, 0.5 A, Ribbon Cable	x	Ex n
750-1501	16 DI 24 VDC, 0.5 A, Ribbon Cable, Low-Side Switching	x	Ex n
750-1505	16 DO 24 VDC, 0.5 A, Low-Side Switching	x	Ex n

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Digital Input/Output Modules

750-1506	8 DI 8 DO 24 VDC, 0.5 A	x	Ex n
750-1502	8 DI 8 DO 24 VDC, 0.5 A, Ribbon Cable	x	Ex n

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Volume 4 – Interface Modules

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Analog Input Modules



750-456	2 AI ±10 VDC	x	Ex n
750-476	2 AI ±10 VDC , 16-Bit, S.-E.	x	Ex n
750-479	2 AI ±10 VDC, Differential Measurement Input	x	Ex n
750-477	2 AI 0- 10 V AC/DC, Differential Input	x	Ex n
750-467	2 AI 0- 10 VDC, S.-E.	x	Ex n
750-478	2 AI 0- 10 VDC, 16-Bit, S.-E.	x	Ex n
750-483	2 AI 0-30 VDC, Differential Measurement Input	x	Ex n
750-472	2 AI 0-20 mA, 16-Bit, S.-E.	x	Ex n
750-470	2 AI 0-20 mA, 16-Bit, S.-E., S.-C. Protect.	x	Ex n
750-452	2 AI 0-20 mA, Differential Input	x	Ex n
750-480	2 AI 0-20 mA, Differential Measurement Input	x	Ex n
750-465	2 AI 0-20 mA, S.-E.	x	Ex n
750-482	2 AI 4-20 mA, 12-Bit, S.-E., HART	x	Ex n
750-474	2 AI 4-20 mA, 16-Bit, S.-E.	x	Ex n
750-473	2 AI 4-20 mA, 16-Bit, S.-E., S.-C. Protect.	x	Ex n
750-454	2 AI 4-20 mA, Differential Input	x	Ex n

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Analog Input Modules



750-492	2 AI 4-20 mA, Differential Measurement Input	x	Ex n
750-466	2 AI 4-20 mA, S.-E.	x	Ex n
750-475	2 AI 0-1 A AC/DC, Differential Input	x	Ex n
750-461	2 AI RTD	x	Ex n
750-469	2 AI TC, Diagnostics	x	Ex n
750-464	2/4 AI RTD, Freely Configurable	x	Ex n
750-457	4 AI ±10 VDC, S.-E.	x	Ex n
750-459	4 AI 0-10 VDC, S.-E.	x	Ex n
750-468	4 AI 0-10 VDC, S.-E.	x	Ex n
750-453	4 AI 0 - 20 mA S.E.	x	Ex n
750-455	4 AI 4-20 mA, S.-E.	x	Ex n
750-463	4 AI RTD, -30 °C ... +150 °C		Ex n
750-493	3-Phase Power Measurement Module		Ex n
750-494	3-Phase Power Measurement Module, Harmonic Analysis		Ex n

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Analog Output Modules



750-550	2 AO 0-10 VDC	x	Ex n
750-560	2 AO 0-10 VDC, 10-Bit, 10 mA 24 V	x	Ex n
750-556	2 AO ±10 VDC	x	Ex n
750-562	2 AO 0/±10 VDC, 16-Bit	x	Ex n
750-563	2 AO 0/4-20 mA, 6-18 VDC, 16-Bit	x	Ex n
750-552	2 AO 0-20 mA	x	Ex n
750-554	2 AO 4-20 mA	x	Ex n
750-559	4 AO 0-10 VDC	x	Ex n
750-557	4 AO ±10 VDC	x	Ex n
750-553	4 AO 0-20 mA	x	Ex n
750-555	4 AO 4-20 mA	x	Ex n

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All 750 Series I/O modules can be used in the standard ambient temperature range of 0 °C to 55 °C.
I/O modules with ATEX/IECEx approvals can be used in an ambient temperature range of 0 °C to 60 °C.

Illustration	Item No.	Description	Approval		
			ANSI/ISA 12.12.01 Class I, Div 2, ABCD File E198726	ATEX Group I/II -TÜV 07 ATEX 554086 X -TÜV 12 ATEX 106032 X	IECEx Group I/II -TÜV TUN 09.0001 X -TÜV TUN 12.0039 X

Specialty Modules



750-404	1-Channel Up/Down Counter, 100 kHz	x	Ex n
750-645	2 AI/2 DO VIB VRMS/SPM Multi	x	Ex n
750-511	2 DO 24 VDC, 0.1 A, Pulse Width	x	Ex n
750-638	2-Channel Up/Down Counter, 500 Hz	x	Ex n
750-655	AS Interface Master	x	Ex n
750-644	Bluetooth® RF Transceiver	x	Ex n
750-641	DAI / DSI Master Module	x	Ex n
750-635	Digital Pulse Interface	x	Ex n
750-642	Radio Receiver I/O Module	x	Ex n
750-637	Incremental Encoder Interface, 32-Bit	x	Ex n
750-643	MP Bus Master Module	x	Ex n
750-652	RS-232/RS-485, Freely Configurable	x	Ex n
750-650	RS-232-C Interface	x	Ex n
750-653	RS-485 Interface	x	Ex n
750-640	RTC Module	x	Ex n
750-630	SSI Transmitter Interface	x	Ex n

Volume 3 – I/O-SYSTEM

- Modular I/O Systems, IP20
- Radio Technology, TO-PASS® Telecontrol Technology
- Industrial Swiches, PERSPECTO®
- Modular I/O-SYSTEM, IP67, Block I/O-SYSTEM, IP67
- Sensor/Actuator Boxes, IP67, Cables and Connectors, IP67
- Power Supplies

Volume 4 – Interface Modules

- Relays – Optocouplers – Specialty Functions
- Interface Modules
- Transducers
- Power Supplies
- Overvoltage Protection
- Radio Technology
- Empty Housings and DIN-Rail Mounting Carriers

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Illustration	Item No.	Description	Approval	
			ANSI/ISA 12.12.01 Class I, Div 2, ABCD File E198726	ATEX Group I/II -TÜV 07 ATEX 554086 X -TÜV 12 ATEX 106032 X IECEx Group I/II -TÜV TUN 09.0001X -TÜV TUN 12.0039X


Specialty Modules

	750-671	Stepper Controller 24 V, 1.5 A	x	Ex n
	750-670	Stepper Controller 24 V, RS-422, 20 mA	x	Ex n
	750-651	TTY Interface	x	

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System Modules

	750-612	0–230 V AC/DC Power Supply	x	Ex n
	750-615	120 VAC Power Supply, Fuse	x	Ex n
	750-609	230 VAC Power Supply, Fuse	x	Ex n
	750-611	230 VAC Power Supply, Fuse, Diagnostics	x	Ex n
	750-602	24 VDC Power Supply	x	Ex n
	750-601	24 VDC Power Supply, Fuse	x	Ex n
	750-610	24 VDC Power Supply, Fuse, Diagnostics	x	Ex n

AUTOMATION



All 750 Series I/O modules can be used in the standard ambient temperature range of 0 °C to 55 °C.
I/O modules with ATEX/IECEx approvals can be used in an ambient temperature range of 0 °C to 60 °C.

Illustration	Item No.	Description	Approval		
			ANSI/ISA 12.12.01 Class 1, Div 2, ABCD File E198726	ATEX Group I/II -TÜV 07 ATEX 554086 X -TÜV 12 ATEX 106032 X	IECEx Group I/II -TÜV TUN 09.0001 X -TÜV TUN 12.0039 X

System Modules



750-613	24 VDC Bus Power Supply	x	Ex n
750-622	Binary Spacer Module	x	Ex n
750-616	Separation Module	x	Ex n
750-621	Separation Module with Power Jumper Contacts	x	Ex n
750-624	Filter Module for Field-Side Power Supply (Surge)	x	Ex n
750-626	Filter Module for System and Field-Side Power Supply (Surge)	x	Ex n
750-623	Supply Module 24 VDC/5-15 V	x	Ex n
750-614	Field-Side Connection Module 4+/4-	x	Ex n
750-604	Field-Side Connection Module 8-	x	Ex n
750-603	Field-Side Connection Module 8+	x	Ex n
750-1607	Field Side Connection Module 8+/8-	x	Ex n
750-1606	Field Side Connection Module 16+	x	Ex n
750-1605	Field Side Connection Module 16+	x	Ex n
750-600	End Module	x	Ex n

Volume 3 – I/O-SYSTEM

- Modular I/O Systems, IP20
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- Sensor/Actuator Boxes, IP67, Cables and Connectors, IP67
- Power Supplies

Volume 4 – Interface Modules

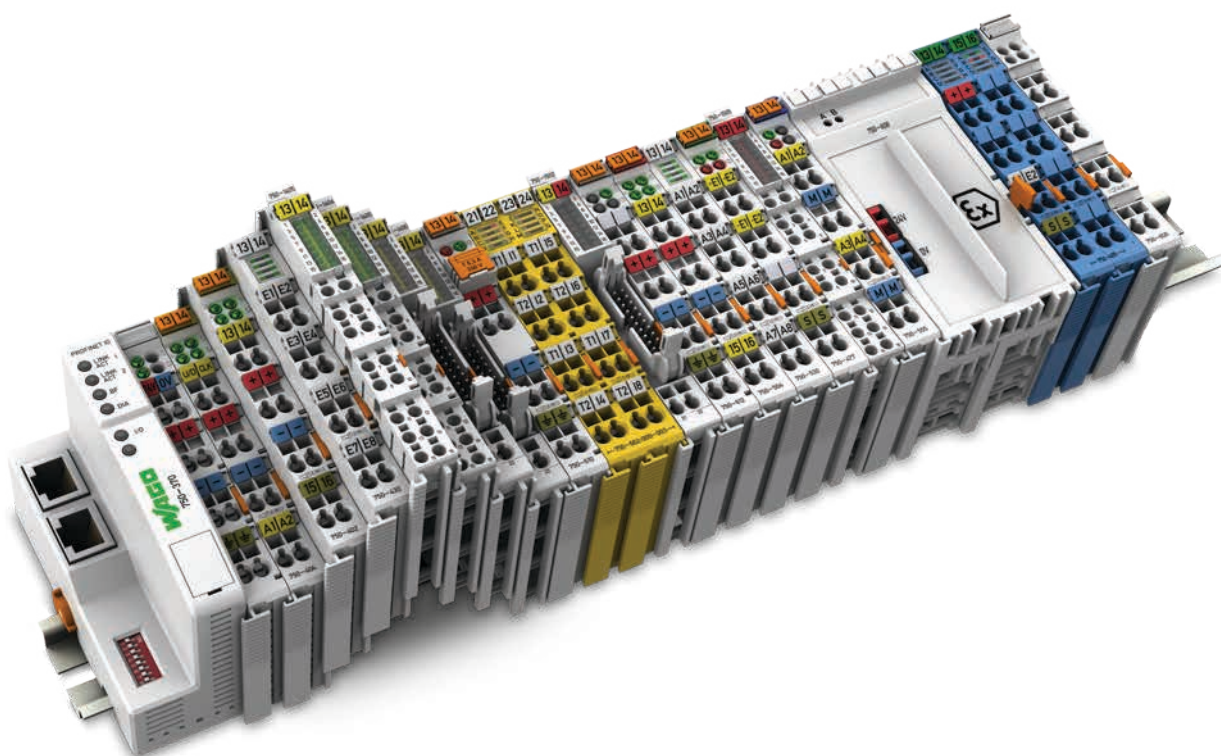
- Relays – Optocouplers – Specialty Functions
- Interface Modules
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- Power Supplies
- Overvoltage Protection
- Radio Technology
- Empty Housings and DIN-Rail Mounting Carriers

Illustration	Item No.	Description	Technical Data	Temperature Range	Approval	Degree of Protection
				-10°C ... +70 °C	ANSI/ISA 12.12.01 DEMKO 12 ATEX 0931267X IECEX UL 10.0006X	Class I Div 2 ABCD T4A Class I Div 2 ABCD T4 Class I Div 2 ABCD T3C II3G Ex nA IIC T4 Gc II3G Ex nA nC IIC T4 Gc II3G Ex nA nC IIC T3 Gc

EPSITRON® ECO Power



787-712	787 Series	110–240 VAC input, 24 VDC/2.5 A output, adjustable output voltage, open-circuit and short-circuit protected, LED status indication	x	x	x	*1	x	-	-	x	-	-
787-722	787 Series	110–240 VAC input, 24 VDC/5 A output, adjustable output voltage, open-circuit and short-circuit protected, LED status indication	x	x	x	*1	-	x	-	-	x	-
787-732	787 Series	110–240 VAC input, 24 VDC/10 A output, adjustable output voltage, open-circuit and short-circuit protected, LED status indication	x	x	x	*1	-	-	x	-	-	x



*1 = pending



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