Data sheet | Item number: 750-628

Bus Extension Coupler Module

https://www.wago.com/750-628

The 750-628 Coupler Module for Internal Data Bus Extension replaces the fieldbus coupler/controller on a module assembly. It is also the mating piece for the 750-627 End Module. Plug the connection cable into the top RJ-45 socket to establish the logical link to the fieldbus coupler/controller via the 750-627 End Module.
The extension is completely transparent for the fieldbus coupler/controller. All of the functions of the I/O module system are retained without any changes.
A further extension to the system is provided by the bottom RJ-45 socket. This enables the entire system to be extended by 10 stages.
The supply voltage for the field side and the internal electronics can be input separately. Both levels are electrically isolated from each other. Two diagnostic LEDs give information about the supply voltage for both the internal and field side. Two LEDs in the input socket indicate fault-free communication with the bus coupler. The module can be used as the last coupler module in the system (switch on matching resistor) or as a bridge between two I/O module assemblies.**Installation note (NOTICE):**
In order to guarantee safe operating conditions when using the 750-627/-628 Coupler Modules for Internal Data Bus Extension, these must be registered prior to startup with the couplers or PLCs (refer to manual for supported couplers/PLCs). You must use the
WAGO Extension Setting Software for this (Download: www.wago.com).
Please note that only one terminating resistor may be activated in the whole system.
Please complete the manufacturing number matrix on the right-hand side of the couplers when updating the firmware and internal operating parameters.

Technical data

Device-specific	Distance (max.): 5 m (10 m see manual); (end/coupler modules or coupler/coupler modules)
Transmission medium	Shielded copper cable (ETHERNET patch cable); 4 x 2 x 0.25 mm², twisted pair, double shielding, STP (Shielded Twisted-Pair)
Number of modules per node (max.)	64
Supply voltage (system)	24 VDC (-15 … +20 %); via pluggable connector (CAGE CLAMP® connection)
Current consumption (5 V system supply)	150 mA
Total current (system supply)	400 mA
Supply voltage (field)	24 VDC (-15 … +20 %); via power jumper contacts (power supply via CAGE CLAMP® connection; transmission via spring contact)
Input current (typ.) at nominal load (24 V)	200 mA
Power supply efficiency (typ.) at nominal load (24 V)	76 %
Isolation	500 V system/field
Number of outgoing power jumper contacts	3
Current carrying capacity (power jumper contacts)	10 A

Connection data

Connection technology: communication/fieldbus	Local data bus: 2 x RJ-45
Connection technology: field supply	6 x CAGE CLAMP®
Connection technology: system supply	2 x CAGE CLAMP®
Connection type 1	System/field supply
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Strip length	8 … 9 mm / 0.31 … 0.35 inch

Physical data

Width	24 mm / 0.945 inch
Height	100 mm / 3.937 inch
Depth	69.8 mm / 2.748 inch
Depth from upper-edge of DIN-rail	62.6 mm / 2.465 inch

Mechanical data

Mounting type	DIN-35 rail

Material data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	0.016 MJ
Weight	74.8 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	0 … +55 °C
Surrounding air temperature (storage)	-40 … +85 °C
Protection type	IP20
Pollution degree (5)	2 per IEC 61131-2
Operating altitude	0 … 2000 m / 0 … 6562 ft
Mounting position	horizontal (standing/lying); vertical
Relative humidity (without condensation)	95 %
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2, marine applications
EMC emission of interference	per EN 61000-6-4, marine applications
Exposure to pollutants	per IEC 60068-2-42 and IEC 60068-2-43
Permissible H_2S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO_2 contaminant concentration at a relative humidity 75 %	25 ppm

Approvals / Certificates

Ex-Approvals

Approval	Standard	Certificate name
EAC Brjansker Zertifizierungs-stelle	TP TC 012/2011	EAC RU C-DE.AM02. B.00163/19 (2Ex nA IIC T4 Gc X)

Country specific Approvals

Approval	Standard	Certificate name
EAC Brjansker Zertifizierungs-stelle	TP TC 020/2011	EAC RU C-DE.AM02. B.00087/19
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-IDE750

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Ship Approvals

Approval	Standard	Certificate name
BSH Bundesamt fuer See-schifffahrt und Hydrogra-phie	-	1104
BV Bureau Veritas S.A.	-	30389/B1 BV
RINA RINA Germany GmbH	-	ELE150716XG

UL-Approvals

Approval	Standard	Certificate name
UL UL International Nether-lands B.V. (ORDINARY LO-CATIONS)	UL 508	E175199 Sec.1

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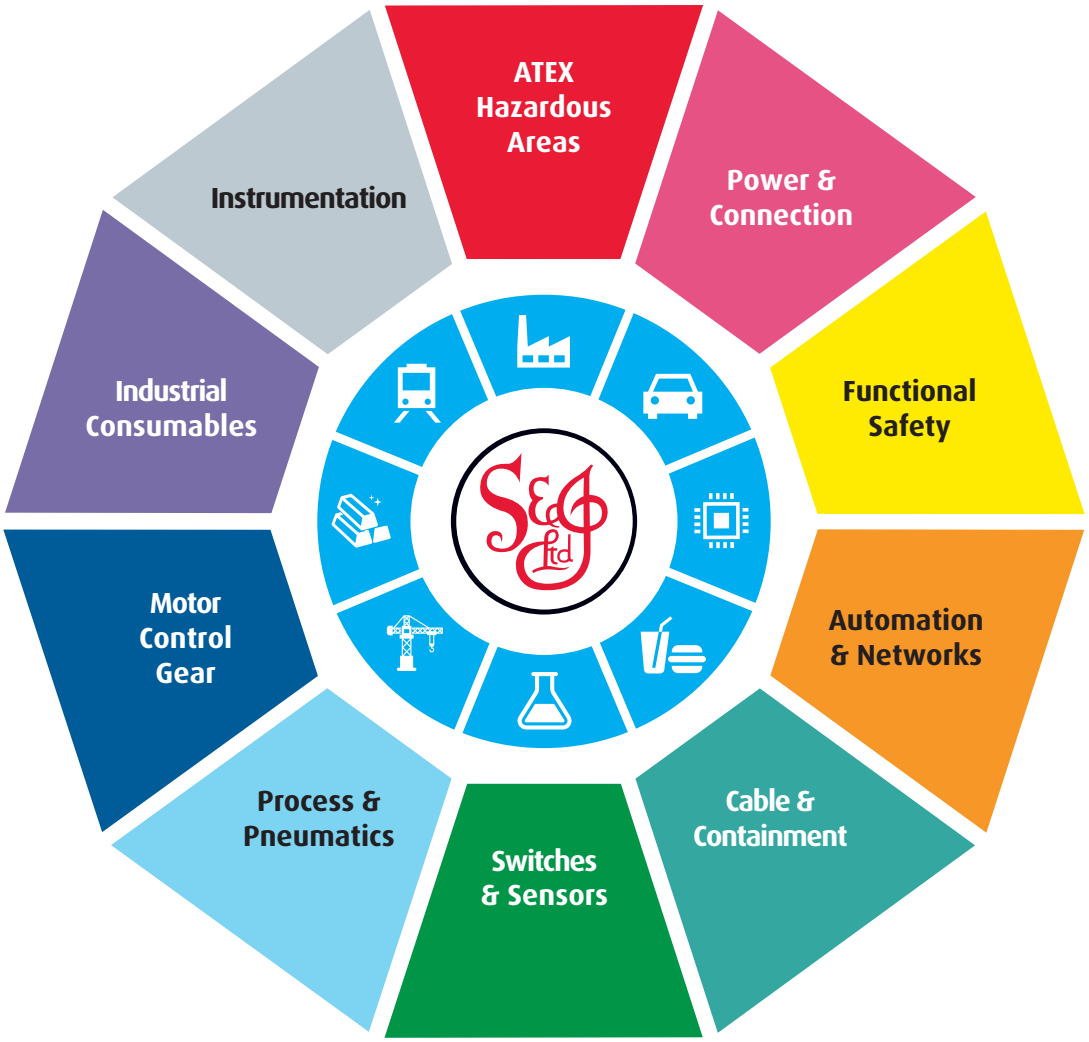

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