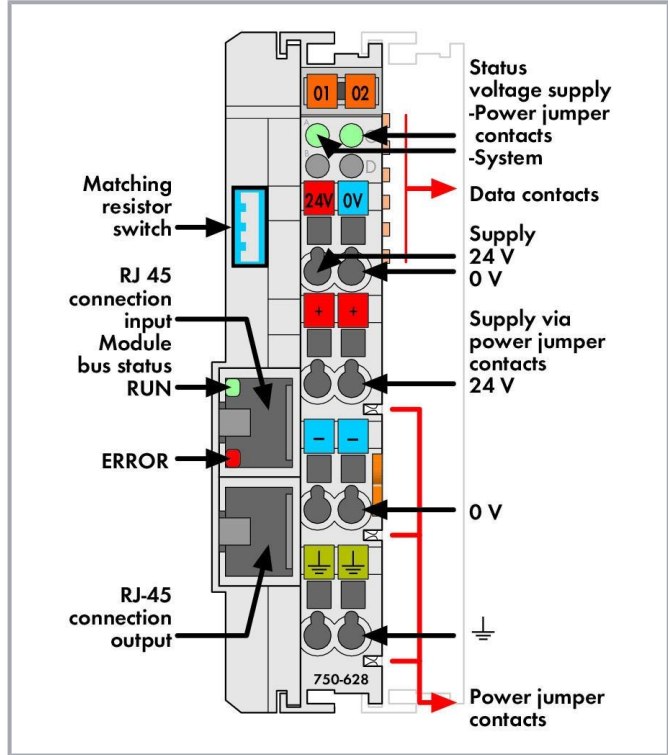
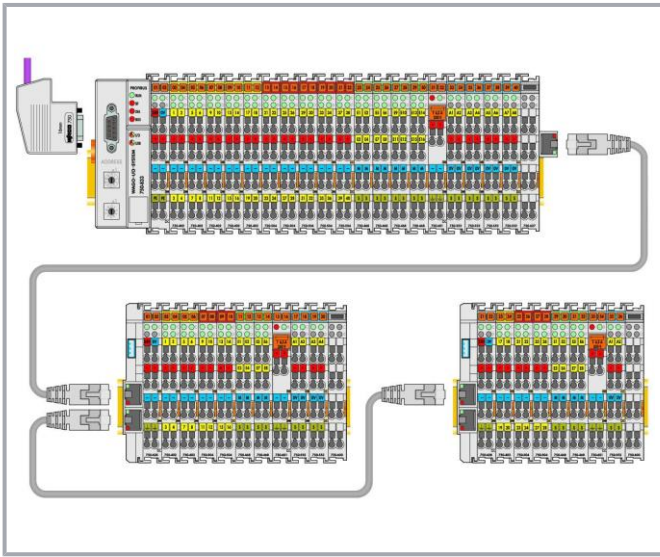


Data sheet | Item number: w750-628

Bus Extension Coupler Module

<https://domat-int.com/en/downloads/data-sheets>





Item description

The w750-628 Coupler Module for Internal Data Bus Extension replaces the fieldbus coupler/controller on a module assembly. It is also the mating piece for the w750-627 End Module. Plug the connection cable into the top RJ-45 socket to establish the logical link to the fieldbus coupler/controller via the w750-627 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):

Please note that only one terminating resistor may be activated in the whole system.

Data

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 × 2 × 0.25 mm ² , 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)
Power consumption (5 V system supply)	150 mA
Total current (system supply)	400 mA
Supply voltage (field)	24 V DC (-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 mm ² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 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
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Material data

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

Environmental requirements


Surrounding air 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
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 ₂ S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO ₂ contaminant concentration at a relative humidity 75 %	25 ppm

Commercial data


Product Group	15 (Remote I/O)
PU (SPU)	1 piece
Packaging type	box
Country of origin	DE
GTIN	4045454830991
Customs tariff number	85389091890

Approvals / Certificates



Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	EAC RU CDE.AM02. B.00163 /19


Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	KC National Radio Research Agency A.	Article 58-2, Clause 3	MSIP REMW43IDE750

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	BV Bureau Veritas S.A.	-	30389/B0 BV
	RINA RINA Germany GmbH	-	ELE150716XG

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Netherlands B.V. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.1

Subject to changes.

Domat control system

WAGO Kontakttechnik GmbH & Co. KG (manufacturer)

Do you have any questions about our products?

We are always happy to take your call at +420 461 100 666.