

Millenium 3 Custom

→ Sandwich communication extensions for XD10/XB10 and XD26/XB26

- Exchange of input/output state with FBD programming
- Only compatible with Custom controllers
- Periodic exchanges with max. 6 XN06 extensions
- Automatic recognition of number of slaves



Part numbers

Type	Description	Supply	Référence
XN07	6-word "exchange unit" communication extension	Via the 24 V --- controller	88974250

Accessories

Designation	Référence
RJ45 tee-joint with 20 cm cable	88970125
EOL ferrules, RC 120 Ω 1 nF (pack of 2)	88970126
RJ45 wiring kit (2 tees, 2 ferrules, 1 x 4-pair FTP cable, 3 m)	88970127

"Exchange unit" characteristics

General characteristics

Certifications	UL, cUL pending
Earthing	Internal link between electronic mass and equipment mass Refer to the quick reference guide supplied with the product
Operating temperature	-20 → +55 °C (+40 °C in a non-ventilated enclosure) in accordance with IEC/EN 60068-2-1 and IEC/EN 60068-2-2
Cable length	Maximum network length: 1000 m (max. 9600 bauds, AWG 26)
Pull-up and Pull-down resistance	Polarised line with 470 Ω resistance (included in product)

Communication parameters

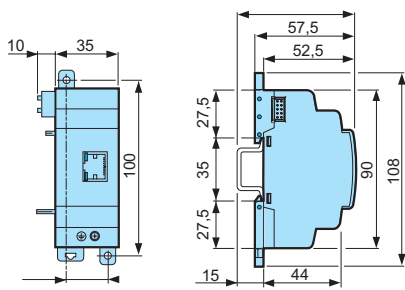
Type of link	2 or 4-wire; RTU or ASCII
Transmission rate (Bauds)	1200, 2400, 4800, 9600, 19200, 28800, 38400, 57600
Parity	None; even; odd
Addressing	XN07: 7 → 247 XN06: 1 → 6

Function blocks programming

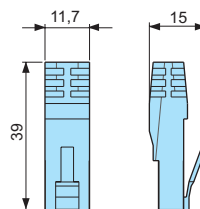
Read-words	1 to 6, depending on the number of XN06 (1 XN06: 6 words, 2 XN06: 3 words, 3 XN06: 2 words, 4, 5 or 6 XN06: 1 word)
Write-words	1 to 6, depending on the number of XN06 (1 XN06: 6 words, 2 XN06: 3 words, 3 XN06: 2 words, 4, 5 or 6 XN06: 1 word)
"Status" words	1 (state of XN06, connected - non-connected)
Clock synchronise bit	Date and time update bit XN07 → XN06
Initialisation bit	Initialisation bit (update of number of slaves connected)
Watch dog bit	1 per XN06 (0/1 if connected)
Cycle time	RTU at 1200 bauds: with 6 XN06: < 3.7 s at 1200 bauds: with 1 XN06: < 1 s at 57600 bauds: with 6 XN06: < 0.2 s ASCII at 1200 bauds: with 6 XN06: < 5.7 s at 1200 bauds: with 1 XN06: < 1.5 s at 57600 bauds: with 6 XN06: < 0.2 s

Dimensions (mm)

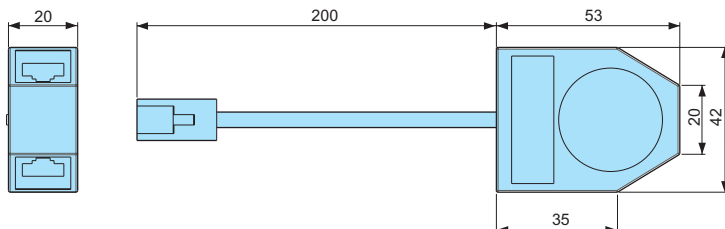
XN07



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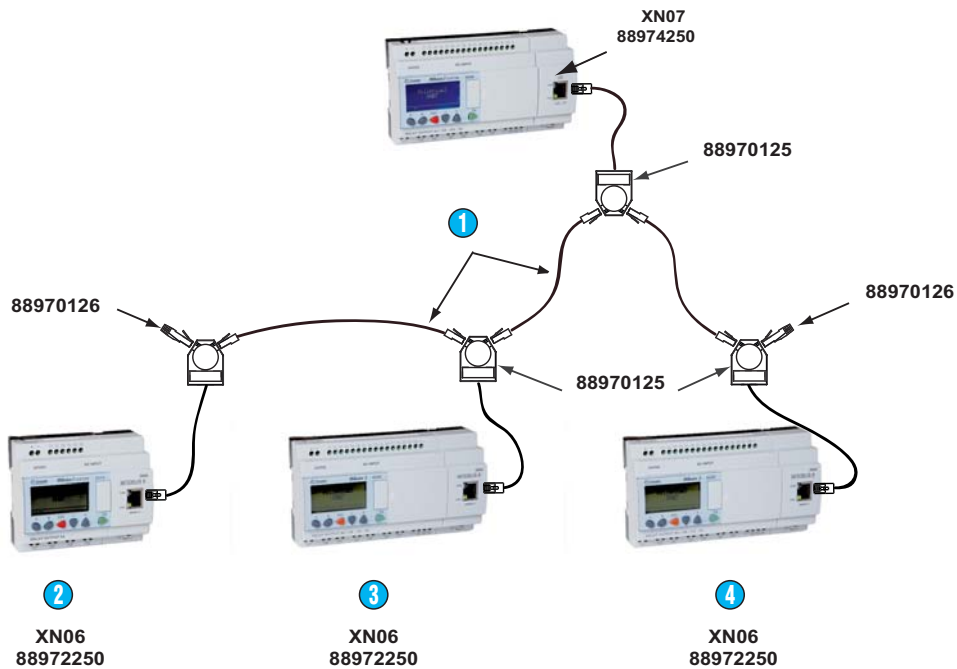


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Connections

Example with three slaves and accessories (two-wire)



- ① RJ45/RJ45 "Cat 5E" - 100 Ω FTP, 4 pairs (available in RJ45 wiring kit - part no.: 88970127)
- ② XN06 Modbus slave 1
- ③ XN06 Modbus slave 2
- ④ XN06 Modbus slave 3

For the wiring rules refer to quick reference guide ISO876.

Applications



Increase the number of inputs/outputs

- More inputs/outputs while retaining the user-friendliness of Millennium 3
- Easier wiring over long distances (up to 1000 m)
- Flexible, modular solution



Double the processing capacity with data exchange

- Local and/or remote data processing

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