

# 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 $\overline{\text{DC}}$ controller	88974250

### Accessories

Designation	Référence
RJ45 tee-joint with 20 cm cable	88970125
EOL ferrules, RC 120 $\Omega$ 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 $\rightarrow$ +55 $^{\circ}\text{C}$ (+40 $^{\circ}\text{C}$ 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 $\Omega$ 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 $\rightarrow$ 247 XN06: 1 $\rightarrow$ 6

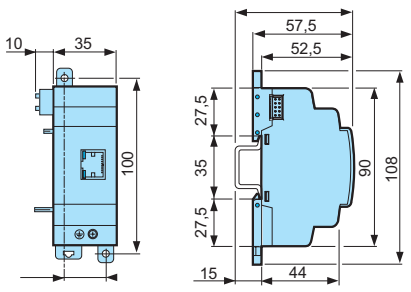
## Characteristics of exchanges

### Function blocks programming

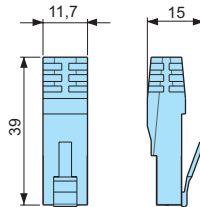
Read-words	1 to 6, depending on the number of XN06 (1 XN06: 6 words, 2 XN06: 3 words, 3 XN06: 2 words, 4, 5 or 6 XN06: 1 word)
Write-words	1 to 6, depending on the number of XN06 (1 XN06: 6 words, 2 XN06: 3 words, 3 XN06: 2 words, 4, 5 or 6 XN06: 1 word)
"Status" words	1 (state of XN06, connected - non-connected)
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	<p><b>RTU</b></p> <p>at 1200 bauds: with 6 XN06: &lt; 3.7 s  at 1200 bauds: with 1 XN06: &lt; 1 s  at 57600 bauds: with 6 XN06: &lt; 0.2 s</p> <p><b>ASCII</b></p> <p>at 1200 bauds: with 6 XN06: &lt; 5.7 s  at 1200 bauds: with 1 XN06: &lt; 1.5 s  at 57600 bauds: with 6 XN06: &lt; 0.2 s</p>

### Dimensions (mm)

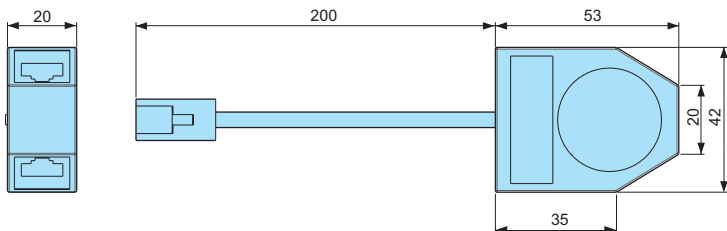
XN07



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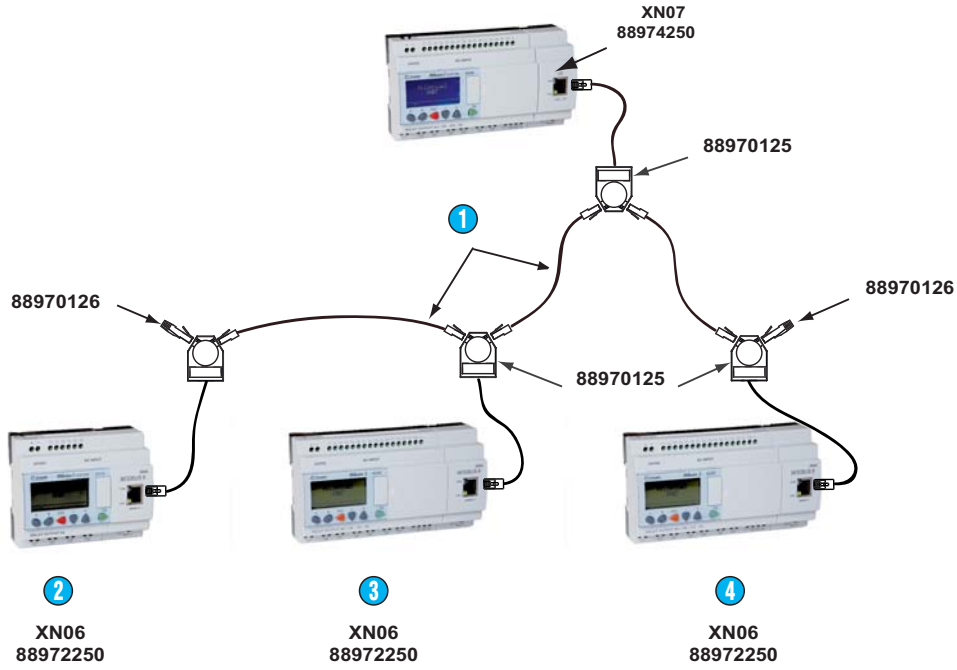


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## Connections

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

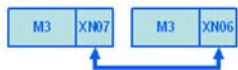
For the wiring rules refer to quick reference guide ISO876.

## 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