

Millenium 3 Smart

→ Sandwich communication extension

- Allows the ability to create a Millenium 3 network
- Ability to exchange 6 to 1 words with FBD programming
- Only compatible with Millenium 3 Smart controllers
- Periodic exchanges with max. 6 XN06 extensions
- Automatic recognition of number of slaves



XN07

Part numbers

Type	Description	Supply		Code
XN07	Master exchange unit for XN06	Via the 24 V --- controller	Obsolete	88974250

Accessories

Designation	Code
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

Specific characteristics*

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

Characteristics of exchanges

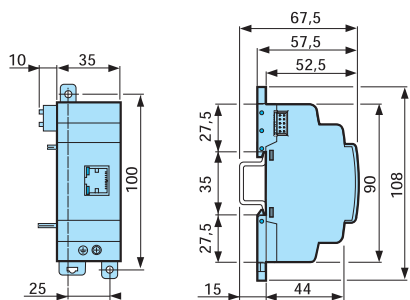
Function blocks programming

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	Initialization 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

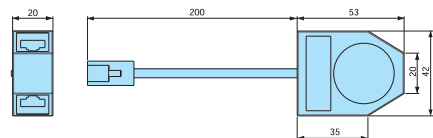
*Also see Millenium 3 Smart and Essential General characteristics

Dimensions (mm)

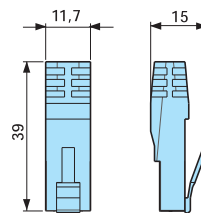
XN07



88970125

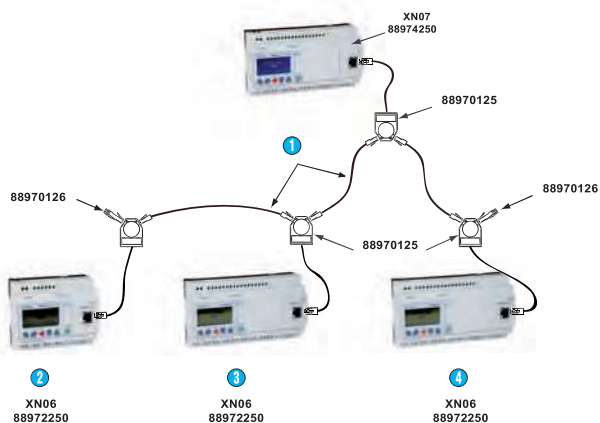


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Connections

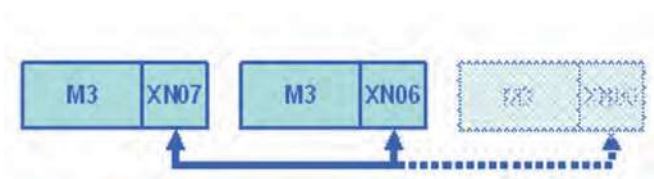
Example with three slaves and accessories (two-wire)



- 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

Concerning connection precautions, please refer to the installation sheet IS 0876
(M3 Application note - Modbus extension XN06 and XN07: Implementation of simplified networks)

Applications

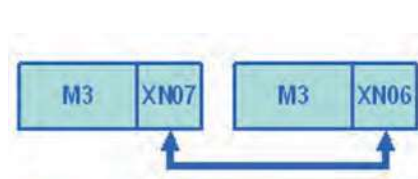


Increase the number of inputs/outputs

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

Repartition of an application to several Millenium 3

- Each Millenium 3 manages a part of the application, the Master synchronizes the lot



Double the processing capacity with data exchange

- Local and/or remote data processing