Millenium 3 PLC Smart Compact CD12/CB12 With/without display

- > Highly visible blue LCD display with 4 lines of 18 characters, with controllable backlighting
- > Compatible with all the fonctions blocks available on the software
-) Wide temperature range (-20 °C \rightarrow +70 °C)
- > Analog inputs 0-10 V---, potentiometer, NTC, (0-20mA/Pt100 with adapters)
- > Possibility to set parameters from the front panel





CD12 with display

CB12 without display

Selection guide					
Power supply	Inputs	Outputs	CD12	CB12	
12 V 	8 digital including 4 analog	4 relays 8A	88974045		
		4 solid state 0.5A including 1 PWM	88974046	-	
24 V		4 relays 8A	88974041	88974021	
		4 solid state 0.5A including 1 PWM	88974042	-	
24 V∼	8 digital	4 relays 8A	88974044	88974024	
100 → 240 V ~			88974043	88974023	

Accessories, Kits & Digital extensions Accessories Types Description Code					
Physical Accessories	EEPROM memory cartridge	88970108			
	3m serial cable: PC → Millenium 3	88970102			
	3m USB cable: PC → Millenium 3	88970109			
	Millenium 3 → Bluetooth® interface (class A 10m)	88970104			

Our Part-Number System



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Description:

Millenium The reference for more than 15 years

The Millenium3 is a versatile, powerful logic controller designed to meet the needs of a wide range of industrial applications. Its ease of use and flexibility make it ideal for automation professionals.

It offers high reliability and accuracy, making it a trusted choice for your automation needs.

For more information about *Millenium*: please visit <u>www.crouzet.com</u>



Accessories, Kits & Digital extensions		
Kit Types	Description	Code
Kit CD12	8 digital (including 4 analog), 4 relays 8 A, 24 V	88974080
	8 digital, 4 relays 8 A, 100 → 240 V ∼	88974081
Expansion Modules	Description	Code
Sandwich communication extensions		
<u>XN06</u>	Modbus	88972250
<u>XN05</u>	Ethernet	88970270
Digital sandwich extension		
XE10	24 V controller	88970321
	100 → 240 V ~	88970323
	24 V∼	88970324
Digital extensions		
XR06	4 digital, 24 V	88970211
	4 digital, 100 → 240 V ~	88970213
	4 digital, 24 V \sim	88970214
	4 digital, 12 V	88970215
XR10	6 digital, 24 V	88970221
	6 digital, 100 $ ightarrow$ 240 V \sim	88970223
	6 digital, 24 V∼	88970224
	6 digital, 12 V===	88970225
XR14	8 digital, 24 V===	88970231
	8 digital, 100 → 240 V∼	88970233
	8 digital, 24 V∼	88970234
	8 digital, 12 V	88970235
Analog extension		
XA03	Analog extension: 3 temperature input	88970800
XA04	Analog extension: 2 inputs/2 outputs	88970241

	12 V	24 V	24 V'	100 → 240 V'	
General environment characteristics					
Certifications	CE, UL, CSA, GL				
Conformity to standards (with the low voltage directive and EMC directive)	IEC/EN 61131-2 (Open IEC/EN 61131-2 (Zone	,			
	IEC/EN 61000-6-2 IEC/EN 61000-6-3 (*) IEC/EN 61000-6-4				
	(*) Except configuration (88 9 enclosure)	70 1X1 or 88 970 1X2) + (88 970	250 or 88 970 270) + 88 970 2	41 class A (class B in a metal	
Earthing	Not included				
Protection rating	In accordance with IEC/EN 60529:				
	IP40 on front panel				
	IP20 on terminal block				
Overvoltage category	3 in accordance with IE	C/EN 60664-1			
Pollution	Degree: 2 in accordance	e with IEC/EN 61131-2			
Max operating Altitude	Operation: 2000 m				
	Transport: 3048 m				
Mechanical resistance	Immunity to vibrations II	EC/EN 60068-2-6, test Fc			
	Immunity to shock IEC/EN 60068-2-27, test Ea				
Resistance to electrostatic discharge	Immunity to ESD IEC/E	N 61000-4-2, level 3			

	12 V 24 V 24 V 100 → 240 V √
Resistance to HF interference	Immunity to radiated electrostatic fields IEC/EN 61000-4-3
	Immunity to fast transients (burst immunity) IEC/EN 61000-4-4, level 3
	Immunity to shock waves IEC/EN 61000-4-5
	Radio frequency in common mode IEC/EN 61000-4-6, level 3
	Voltage dips and breaks (a) IEC/EN 61000-4-11
	Immunity to damped oscillatory waves IEC/EN 61000-4-12
Conducted and radiated emissions	Class B (*) in accordance with EN 55022, EN 55011 (CISPR22, CISPR11) group 1
	(*) Except configuration (88 970 1X1 or 88 970 1X2) + (88 970 250 or 88 970 270) + 88 970 241 class A (class B in a metal enclosure)
Operating temperature Millenium 3 Essential	-20 \rightarrow +55 °C (+40 °C in a non-ventilated enclosure)
and extensions	in accordance with IEC/EN 60068-2-1 and IEC/EN 60068-2-2
Operating temperature Millenium 3 Smart	-20 +70 °C except CB and XB versions in VDC: -30 \rightarrow +70 °C (+40 °C in a nonventilated enclosure) in accordance with IEC/EN 60068-2-1 and IEC/EN 60068-2-2
Storage temperature Millenium 3 Essential and extensions	-40 →+70 °C in accordance with IEC/EN 60068-2-1 and IEC/EN 60068-2-2
Storage temperature Millenium 3 Smart	-40 \rightarrow +80 °C in accordance with IEC/EN 60068-2-1 and IEC/EN 60068-2-2
Relative humidity	95 % max. (no condensation or dripping water) in accordance with IEC/EN 60068-2-30
Mounting	On symmetrical DIN rail, 35 x 7.5 mm and 35 x 15 mm, or on panel (2 x Ø 4 mm)
Screw terminals connection capacity	Flexible wire with ferrule =
	conductor: 0.25 to 2.5 mm 2 (AWG 24 →AWG 14)
	conductors 0.25 to 0.75 mm 2 (AWG 24 →AWG 18) Semi-rigid wire = 1
	conductor: 0.2 to 2.5 mm 2 (AWG 25 →AWG 14)
	Rigid wire =
	conductor: 0.2 to 2.5 mm 2 (AWG 25 →AWG 14)
	conductors 0.2 to 1.5 mm 2 (AWG 25 →AWG 16)
	Tightening torque =
	0.5 N.m (4.5 lb-in) (tighten using screwdriver diam. 3.5 mm)
Millenium 3 Essential versions CB, CD	
Program size function blocks (FBD)	180 typical bloc
	64 macros maximum
	256 blocks maximum per macro
Memory size function blocks (FBD)	4 K
Number of lines in Ladder	120 lines
LCD display	XD: Display with 4 lines of 18 characters
Programming method	Function blocks / SCF (Grafcet) or Ladder
Program memory	Flash EEPROM
Removable memory	EEPROM
Data memory	368 bit / 200 words
Back-up time in the event of power failure	Program and settings in the controller: 10 years
	Program and settings in the plug-in memory: 10 years
	Data memory: 10 years
Cycle time	FBD: $6 \rightarrow 90$ ms (typically 20 ms)
	Ladder: typically 20 ms
Response time	Input acquisition time: + 1 to 2 cycle times
Clock data retention	10 years (lithium battery) at 25 °C
Clock drift	Drift < 12 min/year (at 25 °C)
	6 s/month (at 25 °C with user-definable correction of drift)
Timer block accuracy	1 % ± 2 cycle times

Start up time on power up

< 1.2 s

	12 V 24 V	24 V∼	100 $ ightarrow$ 240 V \sim
Characteristics of products with AC power	er supplied		
Supply			
Nominal voltage	-	24 V∼	$100 ightarrow 240 \ V ightarrow$
Operating limits	-	-15 % / +20 % or 20.4 → 28.8 V ~	-15 % / +10 % or 85 \rightarrow 264 V \sim
Supply frequency range	-	50/60 Hz (+4 % / -6 % or 47 \rightarrow 53 Hz / 57 \rightarrow	
Immunity from micro power cuts	-	10 ms (repetition 20 ti	mes)
Max. absorbed power	-	CB12-CD12: 4 VA	CB12-CD12: 7 VA
Isolation voltage	-	1780 V∼	
Inputs			
Input voltage	-	24 V∼ (-15 % / +20 %)	100 →240 V (-15 % / +10 %)
Input current	-	4.4 mA @ 20.4 V∼ 5.2 mA @ 24.0 V∼ 6.3 mA @ 28.8 V∼	0.24 mA @ 85 V∼ 0.75 mA @ 264 V∼
Input impedance	-	4.6 kΩ	350 kΩ
Logic 1 voltage threshold	-	≥14 V∼	≥79 V∼
Making current at logic state 1	-	> 2 mA	> 0.17 mA
Logic 0 voltage threshold	-	≤5 V~	≤ 20 V (≤ 28 V : XE10, XR06, XR10 XR14)
Release current at logic state 0	-	< 0.5 mA	
Response time with function blocks programming	-	Configurable in incren 50 ms min. up to 255 State $0 \rightarrow 1 (50/60 \text{ Hz})$	ms
Response time with Ladder programming	-	50 ms State 0 →1 (50/60 Hz)
Maximum counting frequency	-	response time (Tr):	cle time (Tc) and input
Sensor type	_	1 / ((2 x Tc) + Tr) Contact or 3-wire PNF	
Input type	-	Resistive	
		None	
Isolation between power supply and inputs	-	None	
Isolation between inputs	-		
Protection against polarity inversions	-	Yes	
Status indicator	As the autimorran	On LCD screen for CI	
Characteristics of relay outputs common Max. breaking voltage	to the entire range 5 → 30 V==		
	24 → 250 V∼		
Breaking current	CB-CD: 8 A		
Electrical durability for 500 000 operating cycles	Utilization category DC-12: 24 V, 1.5 A Utilization category DC-13: 24 V (L/R = 1 Utilization category AC-12: 230 V, 1.5 A Utilization category AC-15: 230 V, 0.9 A	10 ms), 0.6 A	
Max. Output Common Current	12 A for O8, O9, OA		
Minimum switching capacity	10 mA (at minimum voltage of 12 V)		
Minimum load	12 V, 10 mA		
Maximum rate	Off load: 10 Hz At operating current: 0.1 Hz		
Mechanical life	10.000.000 (operations)		
Voltage for withstanding shocks	In accordance with IEC/EN 60947-1 and	IEC/EN 60664-1· 4 kV	
Response time	Make 10 ms		
	Release 5 ms		

| WWW.CROUZET.COM | 5 | Millenium 3 PLC | 03/2024

	12 V	24 V	24 V∼	100 → 240 V∼
Built-in protections	Against short-circuits: N	Vone		
•	Against overvoltages a			
Status indicator	On LCD screen for CD			
Characteristics of product with DC power	supplied			
Supply				
Nominal voltage	12 V	24 V	-	
Operating limits	-13 % / +20 % or 10.4 → 14.4 V	-20 % / +25 % or $19.2 \rightarrow 30 \text{ V}$	-	
	(including ripple)	(including ripple)		
Immunity from micro power cuts	≤ 1 ms (repetition 20 tir	,	-	
Max. absorbed power	CB12 with solid state outputs: 1.5 W CD12: 1.5 W	CB12-CD12 with solid state outputs: 3 W	-	
Protection against polarity inversions	Yes		-	
Digital inputs (I1 to IA and IH to IY)				
Input voltage	12 V (-13 % / +20 %)	24 V (-20 % / +25 %)	-	
Input current	3.9 mA @ 10.44 V	2.6 mA @ 19.2 V	-	
	4.4 mA @ 12 V	3.2 mA @ 24 V		
	5.3 mA @ 14.4 V	4.0 mA @ 30.0 V		
Input impedance	2.7 kΩ	7.4 kΩ	-	
Logic 1 voltage threshold	≥ 7 V 	≥ 15 V	-	
Making current at logic state 1	≥ 2 mA	≥ 2.2 mA	-	
Logic 0 voltage threshold	≤ 3 V 	≤ 5 V 	-	
Release current at logic state 0	< 0.9 mA	< 0.75 mA	-	
Response time	$1 \rightarrow 2$ cycle times + 6 r	ns	-	
Maximum counting frequency	Inputs I1 & I2: FBD (up (1 kHz)			
	Inputs I3 to IA & IH to I' cycle time (Tc) and input 1/ ((2 x Tc) + Tr)			
Sensor type	Contact or 3-wire PNP		-	
Conforming to IEC/EN 61131-2	Type 1		-	
Input type	Resistive		-	
Isolation between power supply and inputs	None		-	
Isolation between inputs	None		-	
Protection against polarity inversions	Yes		-	
Status indicator	On LCD screen for CD		-	
Analog or digital inputs (IB to IG)				
CB12-CD12-XD10-XB10	4 inputs IB → IE		-	
	-			
Inputs used as analog inputs only in FBD				
Measurement range	$(0 \rightarrow 10 \text{ V}) \text{ ou } (0 \rightarrow \text{V p})$	power supply)	-	
Input impedance	14 kΩ	12 kΩ	-	
Input voltage	14.4 V max.	30 V max.	-	
Value of LSB	14 mV	29 mV	-	
Input type	Common mode		-	
Resolution	10 bit at max. input vol	age	-	
Conversion time	Controller cycle time		-	
Accuracy at 25 °C	± 5 %		-	
Accuracy at 55 °C	± 6.2 %		-	
Repeat accuracy at 55 °C	± 2 %		-	
Isolation between analog channel and power supply	None		-	

	12 V 	24 V	24 V∼	100 $ ightarrow$ 240 V \sim
Cable length	10 m maximum, with si isolated)	hielded cable (sensor not	-	
Protection against polarity inversions	Yes		-	
Potentiometer control	2.2 kΩ / 0.5 W (recommendation 10 kΩ max	mended)	-	
Inputs used as digital inputs				
Input voltage	12 V (-13 % / +20 %)	24 V (-20 % / +25 %)	-	
Input current	0.7 mA @ 10.44 V 0.9 mA @ 12 V 1 mA @ 14.4 V	1.6 mA @ 19.2 V 2.0 mA @ 24.0 V 2.5 mA @ 30.0 V	-	
Input impedance	14 kΩ	12 kΩ	-	
Logic 1 voltage threshold	≥ 7 V	≥ 15 V	-	
Making current at logic state 1	≥ 0.5 mA	≥ 1.2 mA	_	
Logic 0 voltage threshold	≤ 3 V	≤ 5 V	_	
Release current at logic state 0	≤ 0.2 mA	≤ 0.5 mA	-	
Response time	1 → 2 cycle times		-	
Maximum counting frequency in FBD	In accordance with cyc		-	
Sensor type	Contact or 3-wire PNP	, ,	-	
Conforming to IEC/EN 61131-2	Type 1		-	
Input type	Resistive		-	
Isolation between power supply and inputs	None		-	
Isolation between inputs	None		-	
Protection against polarity inversions	Yes		-	
Status indicator	On LCD screen for CD			
Characteristics of relay outputs common				
Max. breaking voltage	5 → 30 V			
a 2.0a.ag voltage	$24 \rightarrow 250 \text{ V} \sim$			
Max. Output Common Current	12 A (10 A UL) for O8,	O9, OA		
<u>'</u>	CB-CD: 8 A	·		
Breaking current	CD-CD. o A			
Breaking current Electrical durability for 500 000 operating cycles	Utilization category DC	C-13: 24 V (L/R = 10 ms), C-12: 230 V, 1.5 A	0.6 A	
Electrical durability for 500 000 operating	Utilization category DC Utilization category DC Utilization category AC	2-13: 24 V (L/R = 10 ms), -12: 230 V, 1.5 A -15: 230 V, 0.9 A	0.6 A	
Electrical durability for 500 000 operating cycles	Utilization category DC Utilization category DC Utilization category AC Utilization category AC	2-13: 24 V (L/R = 10 ms), -12: 230 V, 1.5 A -15: 230 V, 0.9 A	0.6 A	
Electrical durability for 500 000 operating cycles Minimum switching capacity	Utilization category DC Utilization category DC Utilization category AC Utilization category AC 10 mA (at minimum vol	2-13: 24 V (L/R = 10 ms), 1-12: 230 V, 1.5 A 15: 230 V, 0.9 A Itage of 12 V)	0.6 A	
Electrical durability for 500 000 operating cycles Minimum switching capacity Minimum load	Utilization category DC Utilization category DC Utilization category AC Utilization category AC Utilization category AC 10 mA (at minimum vol 12 V, 10 mA Off load: 10 Hz	2-13: 24 V (L/R = 10 ms), 12: 230 V, 1.5 A 15: 230 V, 0.9 A Itage of 12 V)	0.6 A	
Electrical durability for 500 000 operating cycles Minimum switching capacity Minimum load Maximum rate	Utilization category DC Utilization category DC Utilization category AC Utilization category AC 10 mA (at minimum vol 12 V, 10 mA Off load: 10 Hz At operating current: 0. 10.000.000 (operations)	2-13: 24 V (L/R = 10 ms), 12: 230 V, 1.5 A 15: 230 V, 0.9 A Itage of 12 V)		
Electrical durability for 500 000 operating cycles Minimum switching capacity Minimum load Maximum rate Mechanical life	Utilization category DC Utilization category DC Utilization category AC Utilization category AC 10 mA (at minimum vol 12 V, 10 mA Off load: 10 Hz At operating current: 0. 10.000.000 (operations)	2-13: 24 V (L/R = 10 ms), 1-12: 230 V, 1.5 A 1-15: 230 V, 0.9 A Itage of 12 V)		
Electrical durability for 500 000 operating cycles Minimum switching capacity Minimum load Maximum rate Mechanical life Voltage for withstanding shocks	Utilization category DC Utilization category DC Utilization category AC Utilization category AC 10 mA (at minimum vol 12 V, 10 mA Off load: 10 Hz At operating current: 0. 10.000.000 (operations In accordance with IEC	2-13: 24 V (L/R = 10 ms), 1-12: 230 V, 1.5 A 1-15: 230 V, 0.9 A Itage of 12 V) 1 Hz 2/EN 60947-1 and IEC/EN		
Electrical durability for 500 000 operating cycles Minimum switching capacity Minimum load Maximum rate Mechanical life Voltage for withstanding shocks Off-cycle response time	Utilization category DC Utilization category AC Utilization category AC Utilization category AC 10 mA (at minimum vol 12 V, 10 mA Off load: 10 Hz At operating current: 0. 10.000.000 (operations In accordance with IEC Make 10 ms Release 5 ms Against short-circuits: I Against overvoltages a On LCD screen for CD	2-13: 24 V (L/R = 10 ms), 1-12: 230 V, 1.5 A 15: 230 V, 0.9 A Itage of 12 V) 1 Hz S) C/EN 60947-1 and IEC/EN None Ind overloads: None		
Electrical durability for 500 000 operating cycles Minimum switching capacity Minimum load Maximum rate Mechanical life Voltage for withstanding shocks Off-cycle response time Built-in protections	Utilization category DC Utilization category DC Utilization category AC Utilization category AC Utilization category AC 10 mA (at minimum vol 12 V, 10 mA Off load: 10 Hz At operating current: 0. 10.000.000 (operations In accordance with IEC Make 10 ms Release 5 ms Against short-circuits: I Against overvoltages a	2-13: 24 V (L/R = 10 ms), 1-12: 230 V, 1.5 A 15: 230 V, 0.9 A Itage of 12 V) 1 Hz S) C/EN 60947-1 and IEC/EN None Ind overloads: None		
Electrical durability for 500 000 operating cycles Minimum switching capacity Minimum load Maximum rate Mechanical life Voltage for withstanding shocks Off-cycle response time Built-in protections Status indicator	Utilization category DC Utilization category AC Utilization category AC Utilization category AC 10 mA (at minimum vol 12 V, 10 mA Off load: 10 Hz At operating current: 0. 10.000.000 (operations In accordance with IEC Make 10 ms Release 5 ms Against short-circuits: I Against overvoltages a On LCD screen for CD	2-13: 24 V (L/R = 10 ms), 1-12: 230 V, 1.5 A 15: 230 V, 0.9 A Itage of 12 V) 1 Hz S) C/EN 60947-1 and IEC/EN None Ind overloads: None		
Electrical durability for 500 000 operating cycles Minimum switching capacity Minimum load Maximum rate Mechanical life Voltage for withstanding shocks Off-cycle response time Built-in protections Status indicator Digital / PWM solid state outputs	Utilization category DC Utilization category DC Utilization category AC Utilization category AC Utilization category AC 10 mA (at minimum vol 12 V, 10 mA Off load: 10 Hz At operating current: 0. 10.000.000 (operations In accordance with IEC Make 10 ms Release 5 ms Against short-circuits: I Against overvoltages a On LCD screen for CD	2-13: 24 V (L/R = 10 ms), 12: 230 V, 1.5 A 15: 230 V, 0.9 A Itage of 12 V) 1 Hz S) C/EN 60947-1 and IEC/EN None and overloads: None		
Electrical durability for 500 000 operating cycles Minimum switching capacity Minimum load Maximum rate Mechanical life Voltage for withstanding shocks Off-cycle response time Built-in protections Status indicator Digital / PWM solid state outputs PWM solid state outputs*	Utilization category DC Utilization category DC Utilization category AC Utilization category AC Utilization category AC 10 mA (at minimum vol 12 V, 10 mA Off load: 10 Hz At operating current: 0. 10.000.000 (operations In accordance with IEC Make 10 ms Release 5 ms Against short-circuits: I Against overvoltages a On LCD screen for CD	2-13: 24 V (L/R = 10 ms), 12: 230 V, 1.5 A 15: 230 V, 0.9 A Itage of 12 V) 1 Hz S) C/EN 60947-1 and IEC/EN None and overloads: None		
Electrical durability for 500 000 operating cycles Minimum switching capacity Minimum load Maximum rate Mechanical life Voltage for withstanding shocks Off-cycle response time Built-in protections Status indicator Digital / PWM solid state outputs PWM solid state outputs* * Only available with "FBD" programming language	Utilization category DC Utilization category AC Utilization category AC Utilization category AC 10 mA (at minimum vol 12 V, 10 mA Off load: 10 Hz At operating current: 0. 10.000.000 (operations In accordance with IEC Make 10 ms Release 5 ms Against short-circuits: 1 Against overvoltages a On LCD screen for CD - CB12: O4 -	C-13: 24 V (L/R = 10 ms), -12: 230 V, 1.5 A -15: 230 V, 0.9 A Itage of 12 V) THZ C/EN 60947-1 and IEC/EN None and overloads: None	I 60664-1: 4 kV	

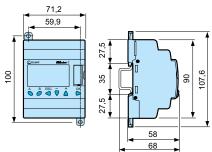
	12 V 24 V	24 V \sim	100 $ ightarrow$ 240 V \sim
Max. breaking current	0.625 A	-	
Voltage drop	≤ 2 V for I = 0.5 A (at state 1)	-	
Response time	Make ≤ 1 ms	-	
	Release ≤ 1 ms		
Frequency (Hz)	1 Maximum on inductive load	-	
Built-in protections	Against overloads and short-circuits: Yes	-	
	Against overvoltages (*): Yes		
	Against inversions of power supply: Yes		
	(*) In the absence of a voltfree contact between the logic controller output and the load		
Min. load	1 mA	-	
Maximum incandescent load	0.2 A / 12 V 0.1 A / 24 V	-	
	0.1 A / 24 V		
Galvanic isolation	No	-	
PWM frequency	14.11 Hz	-	
	56.45 Hz		
	112.90 Hz		
	225.80 Hz		
	451.59 Hz		
	1806.37 Hz		
PWM cyclic ratio	0 →100 % (256 steps for XD)	-	
PWM accuracy at 120 Hz	< 5 % (20 % → 80 %) load at 10 mA	-	
Max. Breaking current PWM	50 mA	-	
Max. cable length PWM	20 m	-	
PWM accuracy at 500 Hz	< 10 % (20 % \rightarrow 80 %) load at 10 mA	-	
Status indicator	On LCD screen for XD	-	

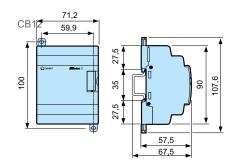
Schematics

Footprint

Version

CD12

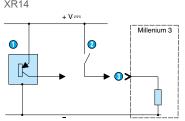


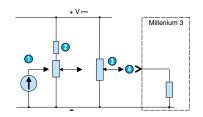


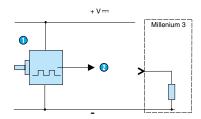
Input/output wiring

Inputs 12 V...., 24 V....

Extensions : XN06, XN05, XE10, XR06, XR10, XR14

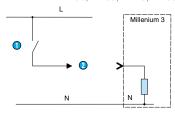






1	3 wire PNP detector	0-10 V (input set to 0-10 V)	Encoder
2	Contact	Potentiometer attachment (input set to 0-10 V)	Fast digital input
3	Digital input	Potentiometer (input set to potentiometer)	-
4	-	Analogue input	-
Inputs 1	00-240 V \sim , 24 V \sim		

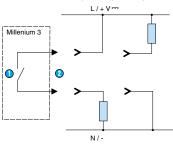
Extensions: XN06, XN05, XE10, XR06, XR10, XR14



1	Contact	-
2	Digital input	-

Relay outputs

Extensions: XE10, XR06, XR10, XR14

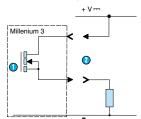


1	Contact	-		
2	Digital input	-		

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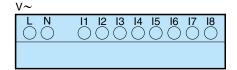
Solid state outputs

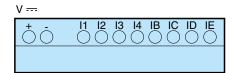
Extensions: XA04



1	MOS transistor -
2	Digital/PWM output -
Input/output installations: Bases	

Inputs





Relay outputs

