

Smart "Expandable" range with display XD10 Smart Part number 88974141



- Highly visible blue LCD with 4 lines of 18 characters and configurable backlighting
- Allow the use of the entire library of specific functions blocs of the software workshop
- Extended temperature range (-20 °C →+70 °C)
- Analogue inputs 0-10 VDC, Potentiometer, NTC, LDR (0-20 mA/Pt100 with converters)
- Open to XN network communication extensions, digital I/O, analogue, Pt100 extensions

	num	

Туре	Inputs	Outputs	Supply
88974141 XD10 Smart	6 digital (including 4 analogue)	4 relays 8 A	24 V DC

Specifications

General environment characteristics for CB, CD, XD, XB, XR and XE product types

Certifications	CE, UL, CSA, GL	
Conformity to standards (with the low voltage directive	IEC/EN 61131-2 (Open equipment)	
and EMC directive)	IEC/EN 61131-2 (Zone B)	
	IEC/EN 61000-6-2, IEC/EN 61000-6-3 (*)	
	IEC/EN 61000-6-4	
	(*) Except configuration (88 970 1.1 or 88 970 1.2) + (88 970 250 or 88 970 270) + 88 970 241 class A (class B in a metal enclosure)	
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 IEC/EN 60664-1	
Pollution	Degree : 2 in accordance with IEC/EN 61131-2	
Max operating Altitude	Operation : 2000 m Transport : 3048 m	
Mechanical resistance	Immunity to vibrations IEC/EN 60068-2-6, test Fc Immunity to shock IEC/EN 60068-2-27, test Ea	
Resistance to electrostatic discharge	Immunity to ESD IEC/EN 61000-4-2, level 3	
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 (AC) 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 1.1 or 88 970 1.2) +	
Operating temperature	(88 970 250 or 88 970 270) + 88 970 241 class A (class B in a metal enclosure) -20 →+70 °C	
Operating temperature	except CB and XB versions in VDC : -30 →+70 °C (+40 °C in a non-ventilated enclosure)	
	in accordance with IEC/EN 60068-2-1 and IEC/EN 60068-22	
Storage temperature	-40 →+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 =	
	1 conductor : 0.25 to 2.5 mm ² (AWG 24AWG 14)	
	2 conductors 0.25 to 0.75 mm ² (AWG 24AWG 18)	
	Semi-rigid wire =	
	1 conductor : 0.2 to 2.5 mm ² (AWG 25AWG 14)	
	Rigid wire =	
	1 conductor : 0.2 to 2.5 mm ² (AWG 25AWG 14)	
	2 conductors 0.2 to 1.5 mm ² (AWG 25AWG 16)	
	Tightening torque = 0.5 N.m (4.5 lb-in) (tighten using screwdriver diam. 3.5 mm)	
	Also valid for spring cage connectors (ref 88 970 313 and 88 970 317 for the RBT range)	
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General characteristics

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Operating temperature	-20 →+70 °C		
Operating factor	100 % (6 A relays) 66 % (8 A relays)	100 % (6 A relays)	
Storage temperature	-40 →+80 °C		
LCD display			
	Display with 4 lines of 18 characters, white characters on a blue background		
Processing characteristics of CB, CD, XD & XB pr	**		
LCD display	CD, XD : Display with 4 lines of 18 characters		
Programming method	Function blocks / SCF (Grafcet) or Ladder		
Program size	8 Kb : 350 typical blocks, 64 macros maximum, 256 blocks maximum per macro		
	or 120 lines in 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		
Cask up time in the event of perior failure	Program and settings in the plug-in memory : 10 years Data memory : 10 years		
Cycle time	FBD : 6 →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 dr	rift)	
Timer block accuracy	1 % ± 2 cycle times		
Start up time on power up	< 1,2 s		
Characteristics of products with AC power suppli	ied		
Supply Nominal voltage	24 V AC	100 →240	N/AC
<u> </u>			
Operating limits	-15 % / +20 % or 20.4 V AC→28.8 V AC	-15 % / +1	0 % C→264 V AC
Supply frequency range	50/60 Hz (+4 % / -6 %)		
Coppiy frequency farige	or 47 →53 Hz/57 →63 Hz	50/60 Hz	(+ 4 % / - 6 %) or 47 →53 Hz/57 →63 Hz
Immunity from micro power cuts	10 ms (repetition 20 times)	10 ms (re	petition 20 times)
Max. absorbed power	CB12-CD12-XD10-XB10 : 4 VA		12-XD10-XB10 : 7 VA
	CB20-CD20 : 6 VA	CB20-CD	20 : 11 VA
	XD10-XB10 with extension : 7.5 VA		10 with extension : 12 VA
	XD26-XB26 : 7.5 VA	XD26-XB2	
	XD26-XB26 with extension : 10 VA		26 with extension : 17 VA
Isolation voltage	1780 V AC	1780 V A	
Inputs			
Input voltage	24 V AC (-15 % / +20 %)		100 →240 V AC (-15 % / +10 %)
Input current	4.4 mA @ 20.4 V AC		0.24 mA @ 85 V AC
	5.2 mA @ 24.0 V AC		0.75 mA @ 264 V AC
	6.3 mA @ 28.8 V AC		
Input impedance	4.6 kΩ		350 kΩ
Logic 1 voltage threshold	≥ 14 V AC		≥ 79 V AC
Making current at logic state 1	> 2 mA		> 0.17 mA
Logic 0 voltage threshold	≤5 V AC		≤ 20 V AC (≤ 28 V AC : XE10, XR06, XR10, XR14)
Release current at logic state 0	< 0.5 mA		< 0.5 mA
Response time with LADDER programming	50 ms		50 ms
Despense time with function blocks programming	State 0 →1 (50/60 Hz)		State 0 →1 (50/60 Hz) Configurable in increments of 10 ms
Response time with function blocks programming	Configurable in increments of 10 ms 50 ms min. up to 255 ms State 0 →1 (50/60 Hz)		Conligurable in increments of 10 ms 50 ms min. up to 255 ms State 0 →1 (50/60 Hz)
Maximum counting frequency	In accordance with cycle time (Tc) and input response ti	ime (Tr)	In accordance with cycle time (Tc) and input response time (Tr):
	1/ ((2 x Tc) + Tr)	(11)	1/ ((2 x Tc) + Tr)
Sensor type	Contact or 3-wire PNP		Contact or 3-wire PNP
Input type	Resistive		Resistive
Isolation between power supply and inputs	None		None
Isolation between inputs	None		None
	Yes		Yes
Protection against polarity inversions	Yes		
Protection against polarity inversions Status indicator	Yes On LCD screen for CD and XD		On LCD screen for CD and XD
Status indicator	On LCD screen for CD and XD		On LCD screen for CD and XD
	On LCD screen for CD and XD ntire range 5 →30 V DC		On LCD screen for CD and XD
Status indicator Characteristics of relay outputs common to the e Max. breaking voltage	On LCD screen for CD and XD ntire range 5 →30 V DC 24 →250 V AC		On LCD screen for CD and XD
Status indicator Characteristics of relay outputs common to the e	On LCD screen for CD and XD ntire range 5 →30 V DC 24 →250 V AC CB-CD-XD10-XB10-XR06-XR10:8 A		On LCD screen for CD and XD
Status indicator Characteristics of relay outputs common to the e Max. breaking voltage	On LCD screen for CD and XD ntire range 5 →30 V DC 24 →250 V AC		On LCD screen for CD and XD
Status indicator Characteristics of relay outputs common to the e Max. breaking voltage	On LCD screen for CD and XD ntire range 5 →30 V DC 24 →250 V AC CB-CD-XD10-XB10-XR06-XR10 : 8 A XD26-XB26 : 8 x 8 A relays, 2 x 5 A relays		On LCD screen for CD and XD
Status indicator Characteristics of relay outputs common to the e Max. breaking voltage	On LCD screen for CD and XD ntire range 5 →30 V DC 24 →250 V AC CB-CD-XD10-XB10-XR06-XR10: 8 A XD26-XB26: 8 x 8 A relays, 2 x 5 A relays XE10: 4 x 5 A relays	maximum c	
Status indicator Characteristics of relay outputs common to the e Max. breaking voltage	On LCD screen for CD and XD ntire range 5 →30 V DC 24 →250 V AC CB-CD-XD10-XB10-XR06-XR10:8 A XD26-XB26:8 x 8 A relays, 2 x 5 A relays XE10:4 x 5 A relays, 2 x 5 A relays XR14:4 x 8 A relays, 2 x 5 A relays RBT (Removable Terminal Blocks) versions: verify the I Utilization category DC-12:24 V, 1.5 A	maximum c	
Status indicator Characteristics of relay outputs common to the e Max. breaking voltage Breaking current	On LCD screen for CD and XD ntire range 5 →30 V DC 24 →250 V AC CB-CD-XD10-XB10-XR06-XR10: 8 A XD26-XB26: 8 x 8 A relays, 2 x 5 A relays XE10: 4 x 5 A relays XR14: 4 x 8 A relays, 2 x 5 A relays RBT (Removable Terminal Blocks) versions: verify the I Utilization category DC-12: 24 V, 1.5 A Utilization category DC-13: 24 V (L/R = 10 ms), 0.6 A	maximum c	
Status indicator Characteristics of relay outputs common to the embedding with the embedding state of the embeddi	On LCD screen for CD and XD ntire range 5 →30 V DC 24 →250 V AC CB-CD-XD10-XB10-XR06-XR10: 8 A XD26-XB26: 8 x 8 A relays, 2 x 5 A relays XE10: 4 x 5 A relays XR14: 4 x 8 A relays, 2 x 5 A relays RBT (Removable Terminal Blocks) versions: verify the I Utilization category DC-12: 24 V, 1.5 A Utilization category DC-13: 24 V (L/R = 10 ms), 0.6 A Utilization category AC-12: 230 V, 1.5 A	maximum c	
Status indicator Characteristics of relay outputs common to the empty of the empty	On LCD screen for CD and XD ntire range 5 →30 V DC 24 →250 V AC CB-CD-XD10-XB10-XR06-XR10: 8 A XD26-XB26: 8 x 8 A relays, 2 x 5 A relays XE10: 4 x 5 A relays XR14: 4 x 8 A relays, 2 x 5 A relays RBT (Removable Terminal Blocks) versions: verify the I Utilization category DC-12: 24 V, 1.5 A Utilization category DC-13: 24 V (L/R = 10 ms), 0.6 A Utilization category AC-12: 230 V, 1.5 A Utilization category AC-15: 230 V, 0.9 A	maximum c	
Status indicator Characteristics of relay outputs common to the editor Max. breaking voltage Breaking current Electrical durability for 500 000 operating cycles Max. Output Common Current	On LCD screen for CD and XD ntire range 5 →30 V DC 24 →250 V AC CB-CD-XD10-XB10-XR06-XR10: 8 A XD26-XB26: 8 x 8 A relays, 2 x 5 A relays XE10: 4 x 5 A relays XR14: 4 x 8 A relays, 2 x 5 A relays RBT (Removable Terminal Blocks) versions: verify the IUtilization category DC-12: 24 V, 1.5 A Utilization category DC-13: 24 V (L/R = 10 ms), 0.6 A Utilization category AC-12: 230 V, 1.5 A Utilization category AC-15: 230 V, 0.9 A	maximum c	
Status indicator Characteristics of relay outputs common to the editor Max. breaking voltage Breaking current Electrical durability for 500 000 operating cycles Max. Output Common Current Minimum switching capacity	On LCD screen for CD and XD ntire range 5 →30 V DC 24 →250 V AC CB-CD-XD10-XB10-XR06-XR10: 8 A XD26-XB26: 8 x 8 A relays, 2 x 5 A relays XE10: 4 x 5 A relays XR14: 4 x 8 A relays, 2 x 5 A relays RBT (Removable Terminal Blocks) versions: verify the IUtilization category DC-12: 24 V, 1.5 A Utilization category DC-13: 24 V (L/R = 10 ms), 0.6 A Utilization category AC-12: 230 V, 1.5 A Utilization category AC-15: 230 V, 0.9 A 12 A for O8, O9, OA	maximum c	
Status indicator Characteristics of relay outputs common to the editor Max. breaking voltage Breaking current Electrical durability for 500 000 operating cycles Max. Output Common Current Minimum switching capacity Minimum load	On LCD screen for CD and XD ntire range 5 →30 V DC 24 →250 V AC CB-CD-XD10-XB10-XR06-XR10: 8 A XD26-XB26: 8 x 8 A relays, 2 x 5 A relays XE10: 4 x 5 A relays XR14: 4 x 8 A relays, 2 x 5 A relays RBT (Removable Terminal Blocks) versions: verify the IU tilization category DC-12: 24 V, 1.5 A Utilization category DC-13: 24 V (L/R = 10 ms), 0.6 A Utilization category AC-15: 230 V, 1.5 A Utilization category AC-15: 230 V, 0.9 A 12 A for O8, O9, OA 10 mA (at minimum voltage of 12 V) 12 V, 10 mA	maximum c	
Status indicator Characteristics of relay outputs common to the editor Max. breaking voltage Breaking current Electrical durability for 500 000 operating cycles Max. Output Common Current Minimum switching capacity	on LCD screen for CD and XD ntire range 5 →30 V DC 24 →250 V AC CB-CD-XD10-XB10-XR06-XR10: 8 A XD26-XB26: 8 x 8 A relays, 2 x 5 A relays XE10: 4 x 5 A relays XR14: 4 x 8 A relays, 2 x 5 A relays RBT (Removable Terminal Blocks) versions: verify the I Utilization category DC-12: 24 V, 1.5 A Utilization category AC-12: 230 V, 1.5 A Utilization category AC-15: 230 V, 0.9 A 12 A for O8, O9, OA 10 mA (at minimum voltage of 12 V) 12 V, 10 mA Off load: 10 Hz	maximum c	
Status indicator Characteristics of relay outputs common to the editor Max. breaking voltage Breaking current Electrical durability for 500 000 operating cycles Max. Output Common Current Minimum switching capacity Minimum load	On LCD screen for CD and XD ntire range 5 →30 V DC 24 →250 V AC CB-CD-XD10-XB10-XR06-XR10: 8 A XD26-XB26: 8 x 8 A relays, 2 x 5 A relays XE10: 4 x 5 A relays XR14: 4 x 8 A relays, 2 x 5 A relays RBT (Removable Terminal Blocks) versions: verify the IU tilization category DC-12: 24 V, 1.5 A Utilization category DC-13: 24 V (L/R = 10 ms), 0.6 A Utilization category AC-15: 230 V, 1.5 A Utilization category AC-15: 230 V, 0.9 A 12 A for O8, O9, OA 10 mA (at minimum voltage of 12 V) 12 V, 10 mA	maximum c	

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Voltage for withstanding shocks	In accordance with IEC/EN 60947-1 and IEC/EN 60664-1 : 4 kV
Off-cycle response time	Make 10 ms Release 5 ms
Built-in protections	Against short-circuits : None Against overvoltages and overloads : None
Status indicator	On LCD screen for CD and XD
Characteristics of product with DC power supplied	ed Control of the Con
Supply	

Supply		
Nominal voltage	12 V DC	24 V DC
Operating limits	-13 % / +20 % or 10.4 V DC→14.4 V DC (including ripple)	-20 % / +25 % or 19.2 V DC \rightarrow 30 V DC (including ripple)
Immunity from micro power cuts	≤ 1 ms (repetition 20 times)	≤ 1 ms (repetition 20 times)
Max. absorbed power	CB12 with solid state outputs: 1.5 W CD12: 1.5 W CD20: 2.5 W XD26-XB26: 3 W XD26-XB26 with extension: 5 W XD26 with solid state outputs: 2.5 W	CB12-CD12-CD20 with solid state outputs - XD10-XB10 with solid state outputs : 3 W XD10-XB10 with relay outputs : 4 W XD26-XB26 with solid state outputs : 5 W CB20-CD20 with relay outputs : 6 W XD26 with relay outputs : 6 W XD10-XB10 with extension : 8 W XD10-XB10 with extension : 8 W XD26-XB26 with extension : 10 W
Protection against polarity inversions	Yes	Yes

Digital inputs (I1 to IA and IH to IY)

Input voltage	12 V DC (-13 % / +20 %)	24 V DC (-20 % / +25 %)
Input current	3.9 mA @ 10.44 V DC	2.6 mA @ 19.2 V DC
	4.4 mA @ 12.0 V DC	3.2 mA @ 24 V DC
	5.3 mA @ 14.4 VDC	4.0 mA @ 30.0 VDC
Input impedance	2.7 kΩ	7.4 kΩ
Logic 1 voltage threshold	≥7 V DC	≥ 15 V DC
Making current at logic state 1	≥2 mA	≥ 2.2 mA
Logic 0 voltage threshold	≤3 V DC	≤5 V DC
Release current at logic state 0	< 0.9 mA	< 0.75 mA
Response time	1 →2 cycle times + 6 ms	1 →2 cycle times + 6 ms
Maximum counting frequency	Inputs I1 & I2: FBD (up to 6 k Hz) & Ladder (1 k Hz)	Inputs I1 & I2: FBD (up to 6 k Hz) & Ladder (1 k Hz)
	Inputs I3 to IA & IH to IY: In accordance with cycle time (Tc) and	Inputs I3 to IA & IH to IY: In accordance with cycle time (Tc) and
	input response time (Tr) : 1/ ((2 x Tc) + Tr)	input response time (Tr): 1/((2 x Tc) + Tr)
Sensor type	Contact or 3-wire PNP	Contact or 3-wire PNP
Conforming to IEC/EN 61131-2	Type 1	Type 1
Input type	Resistive	Resistive
Isolation between power supply and inputs	None	None
Isolation between inputs	None	None
Protection against polarity inversions	Yes	Yes
Status indicator	On LCD screen for CD and XD	On LCD screen for CD and XD

Analogue or digital inputs (IB to IG)

CB12-CD12-XD10-XB10	4 inputs IB →IE	4 inputs IB →IE
CB20-CD20-XB26-XD26	6 inputs IB →IG	6 inputs IB →IG

Inputs used as analogue inputsonly in FBD

inputs used as analogue inputsorily in FBD		
Measurement range	$(0 \rightarrow 10 \text{ V}) \text{ or } (0 \rightarrow \text{V power supply})$	$(0 \rightarrow 10 \text{ V}) \text{ or } (0 \rightarrow \text{V power supply})$
Input impedance	14 kΩ	12 kΩ
Input voltage	14.4 V DC max.	30 V DC max.
Value of LSB	14 mV	29 mV
Input type	Common mode	Common mode
Resolution	10 bit at max. input voltage	10 bit at max. input voltage
Conversion time	Controller cycle time	Controller cycle time
Accuracy at 25 °C	± 5 %	±5%
Accuracy at 55 °C	± 6.2 %	± 6.2 %
Repeat accuracy at 55 °C	± 2 %	± 2 %
Isolation between analogue channel and power supply	None	None
Cable length	10 m maximum, with shielded cable (sensor not isolated)	10 m maximum, with shielded cable (sensor not isolated)
Protection against polarity inversions	Yes	Yes
Potentiometer control	2.2 kΩ/0.5 W (recommended)	2.2 kΩ/0.5 W (recommended)
	10 kΩ max.	10 kΩ max.

Inputs used as digital inputs

iliputs used as digital lilputs		
Input voltage	12 V DC (-13 % / +20 %)	24 V DC (-20 % / +25 %)
Input current	0.7 mA @ 10.44 VDC	1.6 mA @ 19.2 VDC
	0.9 mA @ 12.0 VDC	2.0 mA @ 24.0 V DC
	1.0 mA @ 14.4VDC	2.5 mA @ 30.0 VDC
Input impedance	14 kΩ	12 kΩ
Logic 1 voltage threshold	≥7 V DC	≥ 15 VDC
Making current at logic state 1	≥ 0.5 mA	≥ 1.2 mA
Logic 0 voltage threshold	≤3 V DC	≤5 V DC
Release current at logic state 0	≤ 0.2 mA	≤ 0.5 mA
Response time	1 →2 cycle times	1 →2 cycle times
Maximum counting frequency in FBD	In accordance with cycle time (Tc) and input response time (Tr):	In accordance with cycle time (Tc) and input response time (Tr):
	1/ ((2 x Tc) + Tr)	1/ ((2 x Tc) + Tr)
Sensor type	Contact or 3-wire PNP	Contact or 3-wire PNP
Conforming to IEC/EN 61131-2	Type 1	Type 1
Input type	Resistive	Resistive
Isolation between power supply and inputs	None	None
Isolation between inputs	None	None
Protection against polarity inversions	Yes	Yes

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Status indicator	On LCD screen for CD and XD	On LCD screen for CD and XD	
Characteristics of relay outputs common to the	e entire range		
Max. breaking voltage	5 →30 V DC		
	24 →250 V AC		
Max. Output Common Current	12A (10A UL) for O8, O9, OA		
Breaking current	CB-CD-XD10-XB10-XR06-XR10 : 8 A		
	XD26-XB26 : 8 x 8 A relays, 2 x 5 A relays		
	XE10 : 4 x 5 A relays XR14 : 4 x 8 A relays, 2 x 5 A relays		
Electrical durability for 500 000 operating cycles	Utilization category DC-12 : 24 V, 1.5 A		
Zissinsai aaraziiniy isi soo soo sperainig syees	Utilization category DC-13 : 24 V (L/R = 10 ms), 0.6 A		
	Utilization category AC-12 : 230 V, 1.5 A		
	Utilization category AC-15 : 230 V, 0.9 A		
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		
Off-cycle response time	Make 10 ms		
	Release 5 ms		
Built-in protections	Against short-circuits : None		
	Against overvoltages and overloads : None		
Status indicator	On LCD screen for CD and XD		
Digital / PWM solid state output			
PWM solid state output*	CB12: O4	CD12-XD10-XB10 : O4	
	XD26 : O4 →O7	CD20-XD26-XB26 : O4 →O7	
* Only available with "FBD" programming language	* Only available with "FBD" programming language	40.0	
Breaking voltage	10.4 →30 V DC 12-24 VDC	19.2 →30 V DC 24 V DC	
Nominal voltage	0.5 A	0.5 A	
Nominal current Max. breaking current	0.625 A	0.625 A	
Voltage drop	≤ 2 V for I = 0.5 A (at state 1)	≤ 2 V for I = 0.5 A (at state 1)	
Response time	Make ≤ 1 ms	Make ≤ 1 ms	
	Release ≤ 1 ms	Release ≤ 1 ms	
Operating frequency	1 Maximum on inductive load	1 Maximum on inductive load	
Built-in protections	Against overloads and short-circuits : Yes	Against overloads and short-circuits : Yes	
	Against overvoltages (*) : Yes	Against overvoltages (*) : Yes	
	Against inversions of power supply : Yes	Against inversions of power supply: Yes	
	(*) In the absence of a volt-free contact between the logic controller output and the load	(*) In the absence of a volt-free contact between the logic controller output and the load	
Min. load	1 mA	1 mA	
Maximum incandescent load	0,2 A / 12 V DC		
	0,1 A / 24 V DC	0,1 A / 24 V DC	
Galvanic isolation	No	No	
PWM frequency	14.11 Hz	14.11 Hz	
	56.45 Hz	56.45 Hz	
	112.90 Hz 225.80 Hz	112.90 Hz 225.80 Hz	
	220.00 FZ	223.00 ⊓2 464.60 ⊔ 7	

Accessories

Status indicator

Max. Breaking current PWM

Max. cable length PWM

PWM accuracy at 120 Hz PWM accuracy at 500 Hz

Туре	Description	Code
M3 Soft	Multilingual programming software containing specific library functions (CD-ROM)	88970111
PA	EEPROM memory cartridge	88970108
PA	3 m serial link cable : PC →Millenium 3	88970102
PA	USB cable 3 m : PC →Millenium 3	88970109
PA	Millenium 3 interface →Bluetooth® (class A 10 m)	88970104

 $0 \rightarrow \! 100$ % (256 steps for CD, XD and 1024 steps for XA)

< 5 % (20 % \rightarrow 80 %) load at 10 mA

< 10 % (20 % \rightarrow 80 %) load at 10 mA

On LCD screen for XD

451.59 Hz

50 mA

1806.37 Hz

 $0 \rightarrow 100$ % (256 steps for CD, XD and 1024 steps for XA)

< 5 % (20 % →80 %) load at 10 mA

< 10 % (20 % \rightarrow 80 %) load at 10 mA

On LCD screen for CD and XD

Comments

 * to be marketed 1 $^{\rm st}$ quarter 2006

Dimensions (mm)

XD10 Smart

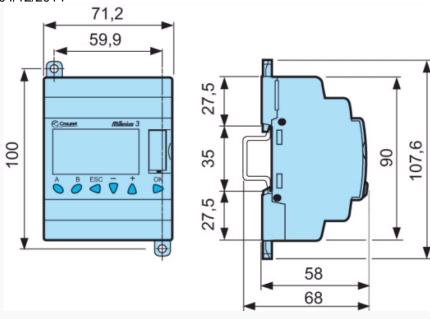
451.59 Hz

50 mA

20 m

1806.37 Hz

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