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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Resin board version NBR32 Part number 88973211



- Vibration resistant
- Extended temperature range
- Outputs via removable connectors
- IP50 seal (connectors)
 DB 9-pin programming port via standard RS 232 cable
- Designed for application-specific functions
 Supplied without connectors. Connectors available (Ref. 88970313, 88970314, 88970315, 88970316)

Part numbers			
Type	Designation	Inputs	Outputs Supply
88973211 NBR32	Relay outputs with connectors	20 digital (including 6 analogue)	12 relays 24 V DC

Specifications	
General environment characteristics for CB, CD, >	(D. YR. YR and YE product types
Certifications	CE, UL, CSA, GL
Conformity to standards (with the low voltage directive and EMC directive)	IEC/EN 61131-2 (Open equipment) IEC/EN 61131-2 (Zone B) IEC/EN 61000-6-2, IEC/EN 61000-6-3 (*) 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) + (88 970 250 or 88 970 270) + 88 970 241 class A (class B in a metal enclosure)
Operating temperature	-20 \rightarrow +70 °C except CB and XB versions in VDC : -30 \rightarrow +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 cha	racteristics	ŝ
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General characteristics	
Certifications	CE CE
Protection index	IP50 (removable connectors)
Mechanical resistance IEC 61373	Railway applications - Rolling stock Category 1 class B stock mounted on car Vibration resistance : 5-150 Hz Random sampling : 10 minutes in each direction (X, Y, Z) Sinusoidal sampling : 5 hours in each direction (X, Y, Z) Shock resistance : 3 shocks 3 g/30 ms per direction Dropping : Total of 26 drops on all sides from a height of 1 metre
Mechanical resistance GAM EG 13	Terrestrial military vehicles Vibration resistance 5-500 Hz 50 m/s ² Sinusoidal sampling 5 hours in each direction (X, Y, Z) Shock resistance: Acceleration: 150 m/s ² , duration: 11 ms, 3 shocks per shaft Acceleration: 300 m/s ² , duration: 11 ms, 3 shocks per shaft Bumps: 1000 half wave sine mechanical bumps 15 g / 6 ms per shaft
Operating temperature	-30 →+70 °C (DC)
Storage temperature	-40 →+80 °C
Housing	Self-extinguishing UL94V2
Resin	UL approved Self-extinguishing UL94V0 Semi-rigid polyurethane resin Solid black appearance Breakdown voltage: 25 kV/mn Water absorption: 0.2 % (24 hours at 23 °C) Shore D hardness: 50 ±5 Smoke category: F1
Outputs	Removable connectors
Breaking current	6 A relay output

Processing characteristics of CB, CD, XD & XB product types

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
	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 drift)
Timer block accuracy	1 % ± 2 cycle times
Start up time on power up	< 1,2 s

Characteristics of products with AC power supplied

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Supply		
Nominal voltage	24 V AC	100 →240 V AC
Operating limits	-15 % / +20 % or 20.4 V AC→28.8 V AC	-15 % / +10 % or 85 V AC→264 V AC
Supply frequency range	50/60 Hz (+4 % / -6 %) or 47 →53 Hz/57 →63 Hz	50/60 Hz (+ 4 % / - 6 %) or 47 \rightarrow 53 Hz/57 \rightarrow 63 Hz
Immunity from micro power cuts	10 ms (repetition 20 times)	10 ms (repetition 20 times)
Max. absorbed power	CB12-CD12-XD10-XB10 : 4 VA CB20-CD20 : 6 VA XD10-XB10 with extension : 7.5 VA XD26-XB26 : 7.5 VA XD26-XB26 with extension : 10 VA	CB12-CD12-XD10-XB10: 7 VA CB20-CD20: 11 VA XD10-XB10 with extension: 12 VA XD26-XB26: 12 VA XD26-XB26 with extension: 17 VA
Isolation voltage	1780 V AC	1780 V AC

Inputs

Input voltage	24 V AC (-15 % / +20 %)	100 →240 V AC (-15 % / +10 %)
Input current	4.4 mA @ 20.4 V AC 5.2 mA @ 24.0 V AC 6.3 mA @ 28.8 V AC	0.24 mA @ 85 V AC 0.75 mA @ 264 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 State 0 →1 (50/60 Hz)	50 ms State 0 →1 (50/60 Hz)
Response time with function blocks programming	Configurable in increments of 10 ms 50 ms min. up to 255 ms State $0 \rightarrow 1 (50/60 \text{ Hz})$	Configurable in increments of 10 ms 50 ms min. up to 255 ms State 0 \rightarrow 1 (50/60 Hz)
Maximum counting frequency	In accordance with cycle time (Tc) and input response time (Tr) : $1/((2 \times Tc) + Tr)$	In accordance with cycle time (Tc) and input response time (Tr) : $1/((2 \times Tc) + Tr)$

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Sensor type	Contact or 3-wire PNP		Contact or 3-wire PNP	
Input type	Resistive		Resistive None	
Isolation between power supply and inputs	None None		None	
Isolation between inputs	Yes		Yes	
Protection against polarity inversions Status indicator	On LCD screen for CD and XD		On LCD screen for CD and XD	
			On Lob screen for ob and Ab	
Characteristics of relay outputs common to				
Max. breaking voltage	5 →30 V DC 24 →250 V AC			
Breaking current	CB-CD-XD10-XB10-XR06-XR10 : 8 A			
Breaking current	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			
El	,	: verify the maximum of	current according to the type of connection used	
Electrical durability for 500 000 operating cycles	Utilization category DC-12 : 24 V, 1.5 A Utilization category DC-13 : 24 V (L/R = 10 r	no) 0 6 A		
	Utilization category AC-12 : 230 V, 1.5 A	113), 0.0 A		
	Utilization category AC-15 : 230 V, 0.9 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)	(EN 00004 4 41)4		
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			
Bank Air proteotions	Against short-circuits : None Against overvoltages and overloads : None			
Status indicator	On LCD screen for CD and XD			
Characteristics of product with DC power su				
	pplied			
Supply				
Nominal voltage	12 V DC	24 V DC		
Operating limits	-13 % / +20 %	-20 % / +25 %	DO (tool office shorts)	
Immunity from micro power cuts	or 10.4 V DC→14.4 V DC (including ripple) ≤ 1 ms (repetition 20 times)	or 19.2 V DC→30 V ≤ 1 ms (repetition 20		
Max. absorbed power	2 i ins (repetition 20 times)		ith solid state outputs - XD10-XB10 with solid state outputs : 3 W	
iviax. absorbed power	CB12 with solid state outputs: 1.5 W	XD10-XB10 with rela		
	CD12 : 1.5 W CD20 : 2.5 W		d state outputs : 5 W	
	XD26-XB26 : 3 W	CB20-CD20 with rela	ay outputs : 6 W	
	XD26-XB26 : 6 W XD26-XB26 with extension : 5 W	XD26 with relay outp		
	XD26 with solid state outputs : 2.5 W	XD10-XB10 with extended XD26-XB26 with extended		
Protection against polarity inversions	Yes	Yes	ension . To w	
	103	103		
Digital inputs (I1 to IA and IH to IY)	40 V DO / 40 V / 90 V)		241/170 / 20 2/ / 25 2/)	
Input voltage	12 V DC (-13 % / +20 %)		24 V DC (-20 % / +25 %)	
Input current	3.9 mA @ 10.44 V DC 4.4 mA @ 12.0 V DC		2.6 mA @ 19.2 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		Inputs I1 & I2 : FBD (up to 6 k Hz) & Ladder (1 k Hz)	
	Inputs I3 to IA & IH to IY : In accordance with	n cycle time (Tc) and	Inputs I3 to IA & IH to IY: In accordance with cycle time (Tc) and	
0	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 Protection against polarity inversions	None Yes		None Yes	
Protection against polarity inversions Status indicator	On LCD screen for CD and XD		On LCD screen for CD and XD	
	CIT LOD GOLDON TO OD AND AD		S. 255 GOLGOTT OF SE UTILI NO	
Analogue or digital inputs (IB to IG)	/: / ID :=			
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				
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 %	

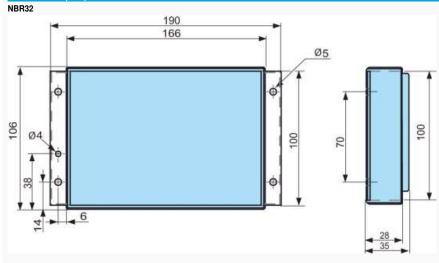
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Isolation between analogue channel and power supply Cable length	None	None		
Cable length	10 m maximum, with shielded cable (sensor not isolated)	10 m maximum, with shielded cable (sensor not isolated)		
Protection against polarity inversions	Yes	Yes		
Potentiometer control	2.2 kΩ/0.5 W (recommended)	2.2 kΩ/0.5 W (recommended)		
	10 kΩ max.	10 k Ω max.		
	10 K22 IIIQA.	10 NZ IIIdA.		
Inputs used as digital inputs				
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		
Status indicator	On LCD screen for CD and XD	On LCD screen for CD and XD		
Characteristics of relay outputs common to the e	ntire range			
Max. breaking voltage	5 →30 V DC			
The same of the sa	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			
	· · · · · · · · · · · · · · · · · · ·			
Floor to the last title to 500,000 and offer a select	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			
	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			
Built-in protections	Release 5 ms			
Duilt-iii brotections	Against short-circuits : None			
	Against overvoltages and overloads : None			
	Against overvoltages and overloads : None On LCD screen for CD and XD			
Status indicator				
Status indicator Digital / PWM solid state output	On LCD screen for CD and XD	CD12-XD10-XB10 : O4		
Status indicator Digital / PWM solid state output	On LCD screen for CD and XD CB12 : O4	CD12-XD10-XB10 : O4 CD20-XD26-XB26 : O4 → O7		
Status indicator Digital / PWM solid state output PWM solid state output*	On LCD screen for CD and XD CB12 : O4 XD26 : O4 →O7	CD12-XD10-XB10 : O4 CD20-XD26-XB26 : O4 →O7		
Status indicator Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language	On LCD screen for CD and XD CB12 : O4 XD26 : O4 → O7 * Only available with "FBD" programming language	CD20-XD26-XB26 : O4 →O7		
Status indicator Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC		
Status indicator Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC		
Status indicator Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A		
Status indicator Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC		
Status indicator Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A		
Status indicator Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A		
Status indicator Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1)	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1)		
Status indicator Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms		
Status indicator Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load		
Status indicator Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency	On LCD screen for CD and XD CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes		
Status indicator Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes	CD20-XD26-XB26 : O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits : Yes Against overvoltages (*) : Yes		
Status indicator Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes	CD20-XD26-XB26: O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes		
Status indicator Digital / PWM solid state output PWM solid state output* * Only available with "FBD" programming language Breaking voltage Nominal voltage Nominal current Max. breaking current Voltage drop Response time Operating frequency	CB12: O4 XD26: O4 → O7 * Only available with "FBD" programming language 10.4 → 30 V DC 12-24 VDC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic	CD20-XD26-XB26: O4 →O7 19.2 →30 V DC 24 V DC 0.5 A 0,625 A ≤ 2 V for I = 0.5 A (at state 1) Make ≤ 1 ms Release ≤ 1 ms 1 Maximum on inductive load Against overloads and short-circuits: Yes Against overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic		
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Accessories

Туре	Description	Code
M3 Soft	Multilingual programming software containing specific library functions (CD-ROM)	88970111
PA	1.80 m serial link cable : DB9 M / DB9 F	88970123
PA	PC : USB →DB9 (RS 232) link cable	88950105
MA	Removable connector kit for NBR32	88970315

Dimensions (mm)



mm



- 40 cm wire
 Extended power supply range (9 →18 VDC), (16 →36 VDC)
 Remote polyester keyboard
 UL, CSA, GL certification

- Integration of all available electrical functions in the catalogue (e.g. : Bluetooth® module, Pt100 input, 0-20 mA input, 0-10 V power output, etc)
- Changing the number of I/O