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Smart range with Removable Terminal blocks XD26RBT Smart Part number 88974561



- Designed for industrial, commercial, medical and paramedical machines
 Faster maintenance process which improves the machine availability rate
- Easier for cabling, allows pre-cabling of the installation
- Simplifies the panel mounting
- Spring cage connectors provide a solution suitable for mobile applications and applications that are subject to vibration
- Compatible with standard 5,08 mm pitch spring cage or screw connectors (angled or straight)
- Features identical to the Millenium 3 Smart range, compatible with any extensions and accessories

Part number	rs				
	Type	Designation	Input	Output	Supply
88974561	XD26RBT Smart	Smart Expandable with display and removable terminal blocks	16 digital (including 6 analog)	10 relays (8 x 8 A relay and 2 x 5 A relay)	24 V DC

Specifications	
General environment characteristics for CB, CD, X	(D. XB. XR and XE 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 →+70 °C 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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Processing characteristics of CB, CD, XD & XB pr	oduct 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 bloc or	ks maximur	m per macro
	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 dr	-ift\	
Timer block accuracy	1 % ± 2 cycle times	111)	
Start up time on power up	<1,2 s		
Characteristics of products with AC power suppli			
	cu		
Supply	041/40	100 04	0.1/40
Nominal voltage	24 V AC -15 % / +20 %	100 →240 -15 % / +	
Operating limits	or 20.4 V AC→28.8 V AC		C→264 V AC
Supply frequency range	50/60 Hz (+4 % / -6 %)		
	or 47 →53 Hz/57 →63 Hz	50/60 Hz	$(+ 4 \% / - 6 \%)$ or $47 \rightarrow 53 \text{ Hz}/57 \rightarrow 63 \text{ Hz}$
Immunity from micro power cuts	10 ms (repetition 20 times)		petition 20 times)
Max. absorbed power	CB12-CD12-XD10-XB10 : 4 VA		12-XD10-XB10 : 7 VA
	CB20-CD20 : 6 VA XD10-XB10 with extension : 7.5 VA		20 : 11 VA 10 with extension : 12 VA
	XD26-XB26 : 7.5 VA		26 : 12 VA
	XD26-XB26 with extension : 10 VA		26 with extension : 17 VA
Isolation voltage	1780 V AC	1780 V A	C
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
Input impedance	6.3 mA @ 28.8 V AC 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
	State 0 →1 (50/60 Hz)		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 →1 (50/60 Hz)		Configurable 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 t	ime (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
Input type	Resistive		Resistive
Isolation between power supply and inputs	None		None
Isolation between inputs Protection against polarity inversions	None Yes		None Yes
Status indicator	On LCD screen for CD and XD		On LCD screen for CD and XD
			0.1 202 00:001 101 02 u.i.u / 12
Characteristics of relay outputs common to the e Max. breaking voltage	5 →30 V DC		
Iviax. Dieaking vollage	24 →250 V AC		
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 RBT (Removable Terminal Blocks) versions: verify the	maximum c	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 ms), 0.6 A Utilization category AC-12 : 230 V, 1.5 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		
Mechanical life	At operating current : 0.1 Hz 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		

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Characteristics of product with DC power supplie			
Supply Naminal voltage	12 V DC	24 V DC	
Nominal voltage Operating limits	-13 % / +20 %	-20 % / +25 %	
Operating limits	or 10.4 V DC→14.4 V DC (including ripple)	or 19.2 V DC→30 V	DC (including ripple)
mmunity from micro power cuts	≤ 1 ms (repetition 20 times)	≤ 1 ms (repetition 20	
Max. absorbed power	CB12 with solid state outputs : 1.5 W CD12 : 1.5 W CD20 : 2.5 W XD26-XB26 : 3 W	CB12-CD12-CD20 w XD10-XB10 with rela XD26-XB26 with soli CB20-CD20 with rela	ith solid state outputs - XD10-XB10 with solid state outputs : 3 W by outputs : 4 W d state outputs : 5 W by outputs : 6 W
	XD26-XB26 with extension : 5 W XD26 with solid state outputs : 2.5 W	XD26 with relay outp XD10-XB10 with exte XD26-XB26 with exte	ension: 8 W
Protection against polarity inversions	Yes	Yes	
igital inputs (I1 to IA and IH to IY)			
nput voltage	12 V DC (-13 % / +20 %)		24 V DC (-20 % / +25 %)
nput current	3.9 mA @ 10.44 V DC 4.4 mA @ 12.0 V DC 5.3 mA @ 14.4 VDC		2.6 mA @ 19.2 V DC 3.2 mA @ 24 V DC 4.0 mA @ 30.0 VDC
nput impedance	2.7 kΩ		7.4 kΩ
ogic 1 voltage threshold	≥7 V DC		≥ 15 V DC
Making current at logic state 1	≥ 2 mA		≥ 2.2 mA
ogic 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 11 & I2 : FBD (up to 6 k Hz) & Ladder (Inputs I3 to IA & IH to IY : In accordance with input response time (Tr) : 1/ ((2 x Tc) + Tr)		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) ar
Sensor type	Contact or 3-wire PNP		input response time (Tr) : 1/ ((2 x Tc) + Tr) Contact or 3-wire PNP
Conforming to IEC/EN 61131-2	Type 1		Type 1
	Resistive		Resistive
nput type solation between power supply and inputs	None		None
solation between inputs	None		None
rotection against polarity inversions	Yes		Yes
tatus indicator nalogue or digital inputs (IB to IG)	On LCD screen for CD and XD		On LCD screen for CD and XD
B12-CD12-XD10-XB10	4 inputs IB →IE		4 inputs IB →IE
B20-CD20-XB26-XD26	6 inputs IB →IG		6 inputs IB →IG
	o inputo ib =//o		o inputo ib -710
puts used as analogue inputsonly in FBD			
Measurement range	$(0 \rightarrow 10 \text{ V})$ or $(0 \rightarrow \text{V})$ power supply)		$(0 \rightarrow 10 \text{ V}) \text{ or } (0 \rightarrow \text{V power supply})$
nput impedance	14 kΩ		12 kΩ
nput voltage	14.4 V DC max.		30 V DC max.
alue of LSB	14 mV		29 mV
nput 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 %
ccuracy at 55 °C	± 6.2 %		± 6.2 %
lepeat accuracy at 55 °C	± 2 %		± 2 %
solation between analogue channel and power supply	None		None
able length	10 m maximum, with shielded cable (sensor	not isolated)	10 m maximum, with shielded cable (sensor not isolated)
rotection against polarity inversions	Yes		Yes
otentiometer control	2.2 kΩ/0.5 W (recommended)		2.2 kΩ/0.5 W (recommended)
	10 kΩ max.		10 kΩ max.
puts used as digital inputs			
aput voltage	12 V DC (-13 % / +20 %)		24 V DC (-20 % / +25 %)
nput current	0.7 mA @ 10.44 VDC		1.6 mA @ 19.2 VDC
The second secon	0.9 mA @ 12.0 VDC		2.0 mA @ 24.0 V DC
	1.0 mA @ 14.4VDC		2.5 mA @ 30.0 VDC
put impedance	14 kΩ		12 kΩ
ogic 1 voltage threshold	≥7 V DC		≥ 15 VDC
aking current at logic state 1	≥ 0.5 mA		≥ 1.2 mA
ogic 0 voltage threshold	≤3 V DC		≤5 V DC
elease current at logic state 0	≤ 0.2 mA		≤ 0.5 mA
esponse time	1 →2 cycle times		1 →2 cycle times
aximum 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 (T
	1/ ((2 x Tc) + Tr)		1/ ((2 x Tc) + Tr)
ensor type	Contact or 3-wire PNP		Contact or 3-wire PNP
onforming to IEC/EN 61131-2	Type 1		Type 1
put type	Resistive		Resistive
olation between power supply and inputs	None		None
olation between inputs	None		None
bolation between inputs	Yes		Yes
·	162		
rotection against polarity inversions	On LCD screen for CD and XD		On LCD screen for CD and XD
rotection against polarity inversions tatus indicator	On LCD screen for CD and XD		On LCD screen for CD and XD
rotection against polarity inversions tatus indicator haracteristics of relay outputs common to the e	On LCD screen for CD and XD ntire range		On LCD screen for CD and XD
rotection against polarity inversions tatus indicator	On LCD screen for CD and XD		On LCD screen for CD and XD

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.0/ .2/20 .0		
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 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 XD26 : O4 →O7	CD12-XD10-XB10 : O4 CD20-XD26-XB26 : O4 →O7

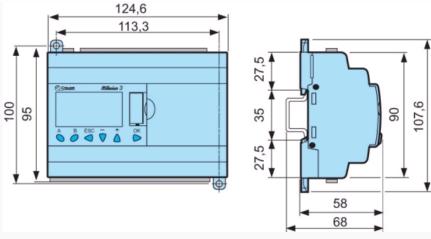
CB12: O4	Digital / PWM solid state output		
Breaking voltage	PWM solid state output*	00.000	
Nominal voltage	* Only available with "FBD" programming language	* Only available with "FBD" programming language	
Nominal current 0.5 A 0.625 A	Breaking voltage	10.4 →30 V DC	19.2 →30 V DC
Max. breaking current 0,625 A 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 Operating frequency 1 Maximum on inductive load 1 Maximum on inductive load 1 Maximum on inductive load Bullt-in protections Against overloads and short-circuits : Yes Against overloads and short-circuits : Yes Against inversions of power supply : Yes (') In the absence of a voll-free contact between the logic controller output and the load Against inversions of power supply : Yes (') In the absence of a voll-free contact between the logic controller output and the load 1 mA 1 mA Min. load 1 mA 1 mA 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 0,1 A / 24 V DC Galvanic isolation No No No PWM frequency 14.11 Hz 56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz 112.90 Hz 225.80 Hz 451.59 Hz 1806.37 Hz 1806	Nominal voltage	12-24 VDC	24 V DC
Voltage drop	Nominal current	0.5 A	0.5 A
Response time Make ≤ 1 ms Release ≤ 1 ms Release ≤ 1 ms Make ≤ 1 ms Release ≤ 1 ms Release ≤ 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 overvoltages (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load Against inversions of power supply: Yes (*) 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 56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz 1806.37 Hz 14.11 Hz 56.45 Hz 112.90 Hz 255.80 Hz 451.59 Hz 1806.37 Hz 14.12.90 Hz 255.80 Hz 451.59 Hz 1806.37 Hz PWM cyclic ratio 0 →100 % (256 steps for CD, XD and 1024 steps for XA) 0 →100 % (256 steps for CD, XD and 1024 steps for XA) Max. cable length PWM 20 m 20 m PWM accuracy at 120 Hz < 5 % (20 % →80 %) load at 10 mA	Max. breaking current	0,625 A	0,625 A
Release ≤ 1 ms	Voltage drop	≤ 2 V for I = 0.5 A (at state 1)	≤ 2 V for I = 0.5 A (at state 1)
Against overloads and short-circuits: Yes Against overloads (*): Yes Against inversions of power supply: Yes (*) In the absence of a volt-free contact between the logic controller output and the load	Response time		
Against overvoltages (*) : Yes Against inversions of power supply : Yes (*) In the absence of a volt-free contact between the logic controller output and the load Min. load 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 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 CD, XD and 1024 steps for XA) Max. Breaking current PWM Max. cable length PWM PWM accuracy at 120 Hz 2 5 % (20 % →80 %) load at 10 mA Against overvoltages (*) : Yes Against inversions of power supply : Yes (*) In the absence of a volt-free contact between the logic controller output and the load 1 mA 1 mA 1 mA 1 mA 1 mA 1 mA No 0,1 A / 24 V DC 0,1 A / 24 V DC 0,1 A / 24 V DC 14.11 Hz 56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz 1806.37 Hz 1806.37 Hz 20 m 20 m PWM accuracy at 120 Hz < 5 % (20 % →80 %) load at 10 mA < 10 % (20 % →80 %) load at 10 mA < 10 % (20 % →80 %) load at 10 mA < 10 % (20 % →80 %) load at 10 mA < 10 % (20 % →80 %) load at 10 mA	Operating frequency	1 Maximum on inductive load	1 Maximum on inductive load
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 56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz 1806.37 Hz 14.29 Hz 225.80 Hz 451.59 Hz 1806.37 Hz PWM cyclic ratio 0 →100 % (256 steps for CD, XD and 1024 steps for XA) 0 →100 % (256 steps for CD, XD and 1024 steps for XA) Max. Breaking current PWM 50 mA 50 mA Max. cable length PWM 20 m 20 m PWM accuracy at 120 Hz < 5 % (20 % →80 %) load at 10 mA	Built-in protections	Against overvoltages (*) : Yes Against inversions of power supply : Yes (*) In the absence of a volt-free contact between the logic	Against overvoltages (*) : Yes Against inversions of power supply : Yes (*) In the absence of a volt-free contact between the logic
O,1 A / 24 V DC Galvanic isolation No No No 14.11 Hz 56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz 1806.37 Hz PWM cyclic ratio O→100 % (256 steps for CD, XD and 1024 steps for XA) Max. Breaking current PWM Max. cable length PWM PWM accuracy at 120 Hz < 5 % (20 % →80 %) load at 10 mA PWM accuracy at 500 Hz O√1 A / 24 V DC 0,1 A / 24 V DC 14.11 Hz 56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz 1806.37 Hz 1806.37 Hz 1806.37 Hz 20 m O→100 % (256 steps for CD, XD and 1024 steps for XA) 50 mA 50 mA 40 max. cable length PWM 20 m	Min. load	1 mA	1 mA
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 CD, XD and 1024 steps for XA) Max. Breaking current PWM 50 mA Max. cable length PWM 20 m PWM accuracy at 120 Hz < 5 % (20 % →80 %) load at 10 mA PWM accuracy at 500 Hz 14.11 Hz 56.45 Hz 14.11 Hz 56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz 1806.37 Hz 1806.37 Hz 1806.37 Hz 1806.37 Hz 20 m 20 m PWM accuracy at 120 Hz < 5 % (20 % →80 %) load at 10 mA < 10 % (20 % →80 %) load at 10 mA < 10 % (20 % →80 %) load at 10 mA < 10 % (20 % →80 %) load at 10 mA	Maximum incandescent load		0,1 A / 24 V DC
56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz 1806.37 Hz PWM cyclic ratio 0 →100 % (256 steps for CD, XD and 1024 steps for XA) Max. Breaking current PWM 50 mA Max. cable length PWM 20 m PWM accuracy at 120 Hz PWM accuracy at 500 Hz 56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz 1806.37 Hz 1806.37 Hz 0 →100 % (256 steps for CD, XD and 1024 steps for XA) 0 →100 % (256 steps for CD, XD and 1024 steps for XA) 50 mA 20 m PWM accuracy at 120 Hz < 5 % (20 % →80 %) load at 10 mA < 10 % (20 % →80 %) load at 10 mA < 10 % (20 % →80 %) load at 10 mA	Galvanic isolation	No	No
Max. Breaking current PWM 50 mA 50 mA Max. cable length PWM 20 m 20 m PWM accuracy at 120 Hz < 5 % (20 % →80 %) load at 10 mA	PWM frequency	56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz	56.45 Hz 112.90 Hz 225.80 Hz 451.59 Hz
Max. cable length PWM 20 m 20 m PWM accuracy at 120 Hz < 5 % (20 % →80 %) load at 10 mA	PWM cyclic ratio	$0 \rightarrow 100 \%$ (256 steps for CD, XD and 1024 steps for XA)	0 →100 % (256 steps for CD, XD and 1024 steps for XA)
PWM accuracy at 120 Hz < 5 % (20 % →80 %) load at 10 mA	Max. Breaking current PWM	50 mA	50 mA
PWM accuracy at 500 Hz <10 % (20 % →80 %) load at 10 mA <10 % (20 % →80 %) load at 10 mA	Max. cable length PWM	20 m	20 m
	PWM accuracy at 120 Hz	< 5 % (20 % →80 %) load at 10 mA	< 5 % (20 % →80 %) load at 10 mA
Status indicator On LCD screen for XD On LCD screen for CD and XD	PWM accuracy at 500 Hz	< 10 % (20 % →80 %) load at 10 mA	< 10 % (20 % \rightarrow 80 %) load at 10 mA
	Status indicator	On LCD screen for XD	On LCD screen for CD and XD

Accessories

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
MA	Removable connector (spring cage) kit for NBR12, CD12 RBT	88970313
MA	Removable connector (spring cage) kit for XD26 RBT	88970317

Dimensions (mm) XD26 RBT Smart

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Connections

References compatible connectors / Phoenix contact : www.phoenixcontact.com

Connectors





Connectors with spring-cage connection



Maximum load current through electrical contacts

10 A @ 70 °C

9 A @ 70 °C 12 A @ 50 °C 12 A @ 70 °C



12 A @ 60 °C

- | Oty | 2 pins MSTB 2.5 HC/2-ST-5.08 | 1 | 8 pins MSTB 2.5 HC/8-ST-5.08 | 1 | 11 pins MSTB 2.5 HC/8-ST-5.08 |
 - | 2 pins MVSTBR 2.5 HC/2-ST5.08 | 1 2 pins FKC 2.5/ST5.08 | 1 8 pins MVSTBR 2.5 HC/1-ST5.08 | 1 8 pins FKC 2.5/ST5.08 | 1 11 pins MVSTBR 2.5 HC/1-ST5.08 | 1 11 pins FKC 2.5/11-ST5.08
- Oty Réf. Crouzet: 88 970 313

XD26 RBT Smart



- | 1 | 2 pins MSTB 2.5 HC/2-ST-5.08 | 1 | 17 pins MSTB 2.5 HC/17-ST-5.08 | 3 | 5 pins MSTB 2.5 HC/7-ST-5.08 | 7 pins MSTB 2.5 HC/7-ST-5.08 |
- | 1 | 2 pins MVSTBR 2.5 HC/2-ST5.08 | 1 | 17 pins MVSTBR 2.5 HC/17-ST5.08 | 3 | 5 pins MVSTBR 2.5 HC/5-ST5.08 | 1 | 7 pins MVSTBR 2.5 HC/7-ST5.08 |

Oty Réf. Crouzet: 88 970 317

- 1 2 pins FKC 2.5/2-ST-5.08 1 17 pins FKC 2.5/17-ST-5.08
- 5 pins FKC 2.5/5-ST-5.08 7 pins FKC 2.5/7-ST-5.08

Product adaptations



Blind versions Static ouputs versions 12 VDC, 24 VAC power supply versions Not feasible in 110-230 VAC for safety reason I/O expansions UL - cUL certification

Mouser Electronics

Authorized Distributor

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Crouzet: 88974561