


**88970045 : Millenium 3 Standard - "Compact" range with display - CD12**

- ✓ Budget solution with display
- ✓ Memory: 120 lines in LADDER language and up to 350 "typical" blocks in FBD language
- ✓ LCD with 4 lines of 18 characters and configurable backlighting
- ✓ Selective parameter setting: You can choose the parameters that can be adjusted on the front panel
- ✓ Analogue inputs 0-10 VDC or 0-20 mA/Pt 100 with converters (see page 50)



Part number characteristics	88970045
Input	8 digital (including 4 analogue)
Output	4 relays 8 A
Supply	12 V DC

## General characteristics

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

Certifications	UL, CSA GL: except for 88 970 32x (pending)
Conformity with the low voltage directive	In accordance with 73/23/EEC: EN (IEC) 61131-2 (Open equipment)
Conformity with the EMC directive	In accordance with 89/336/EEC: EN (IEC) 61131-2 (Zone B) EN (IEC) 61000-6-2, EN (IEC) 61000-6-3 (*) EN (IEC) 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: using in metallic cabinet)
Earthing	None
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
Maximum utilisation altitude	Operation: 2000 m Transport: 3.048 m
Mechanical resistance	Immunity to vibrations IEC/EN 60068-2-6, Fc test Immunity to shock IEC/EN 60068-2-27, Fa test
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 55022/11 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 metallic cabinet)
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
Storage temperature	-40 → +70°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 profile, 35 x 7.5 mm and 35 mm x 15 or panel (2 x 4 mm Ø)
Screw terminals connection capacity	Flexible wire with ferrule =
	1 conductor: 0.25 to 2.5 mm (AWG 24...AWG 14)
	2 conductors 0.25 to 0.75 mm (AWG 24...AWG 18)
	Semi-rigid wire =
	1 conductor: 0.2 to 2.5 mm (AWG 25...AWG 14)
	Rigid wire =
	1 conductor: 0.2 to 2.5 mm (AWG 25...AWG 14)
2 conductors 0.2 to 1.5 mm (AWG 25...AWG 16)	
Tightening torque =	
0.5 N.m (4.5 lb-in) (tighten using screwdriver diam. 3.5 mm)	

## Dimensions

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