

84870720 : Level control - Level control relay - 17.5 mm - MNS

- ✓ Level control by means of a discrete sensor



Part number characteristics	84870720
Sensing	By discrete sensor
Nominal voltage (V)	24 →240 V AC/DC

General characteristics

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Supply	
Supply voltage Un	24 V →240 V AC/DC
Voltage supply tolerance	-15% / +10%
Operating range	20.4 V →264 V AC/DC
Polarity with DC voltage	No
AC supply voltage frequency	50/60 Hz ± 10%
Power consumption at Un	5.5 VA in AC/2 W in DC
Immunity from micro power cuts	< 5 ms
Inputs and measuring circuit	
Display precision	±10% of full scale
Digital probe input circuit	Volt-free contact
Max. voltage at probe terminals	Supply voltage Un
Minimum pushbutton activation duration	50 ms
Max input current	1 mA
Max. length of probe cables	100 m
Timing	
Delay on threshold crossing	1 →10 s, (1/+10%)
Repetition accuracy with constant parameters	± 0.5%
Reset time	< 100 ms
Output	
Type of output	1 single pole changeover relay
Type of contacts	No cadmium
Maximum breaking voltage	250 V AC/DC
Max. breaking current	5 A AC/DC
Min. breaking current	10 mA / 5 V DC
Electrical life (number of operations)	1 x 10
Breaking capacity (resistive)	1250 VA AC
Maximum rate	360 operations/hour at full load
Operating categories acc. to IEC 60947-5-1	AC 12, AC 13, AC 14, AC 15, DC 12, DC 13, DC 14
Mechanical life (operations)	30 x 10
Insulation	
Nominal insulation voltage IEC 60664-1	250 V
Insulation coordination (IEC 60664-1 / 60255-5)	Overvoltage category III: degree of pollution 3
Rated impulse withstand voltage IEC 60664-1/60255-5	4 kV (1.2 / 50 µs)
Dielectric strength IEC 60664-1/60255-5	2 kV AC 50 Hz 1 min
Insulation resistance IEC 60664-1 / 60255-5	> 500 Ω / 500 V DC
General characteristics	
Display power supply	Green LED
Display relay	Yellow LED
Casing	17.5 mm

84870720 Microcontrol

Mounting	On 35 mm symmetrical DIN rail, IEC/EN 60715
Mounting position	All positions
Material: enclosure plastic type VO to UL94 standard	Incandescent wire test according to IEC 60695-2-11 & NF EN 60695-2-11
Protection (IEC 60529)	Terminal block: IP 20 Casing: IP 30
Weight	80 g
Connecting capacity IEC 60947-1	Rigid: 1 x 4 - 2 x 2.5 mm 1 x 11 AWG - 2 x 14 AWG Flexible with ferrules: 1 x 2.5 - 2 x 1.5 mm 1 x 14 AWG - 2 x 16 AWG
Max. tightening torques IEC 60947-1	0.6 → 1 Nm / 5.3 → 8.8 Lbf.In
Operating temperature IEC 60068-2	-20 → +50°C
Storage temperature IEC 60068-2	-40 → +70°C
Humidity IEC 60068-2-30	2 x 24 hr cycle 95% RH max. without condensation 55°C
Vibrations according to IEC/EN60068-2-6	10 → 150 Hz, A = 0.035 mm
Shocks IEC 60068-2-6	5 g

Standards

Marking	CE (LVD) 73/23/EEC - EMC 89/336/EEC
Product standard	NF EN 60255-6 / CEI 60255-6 / UL 508 / CSA C22.2 N°14
Electromagnetic compatibility	Immunity EN 61000-6-2/IEC 61000-6-2 Emission EN 61000-6-4/EN 61000-6-3 IEC 61000-6-4/IEC 61000-6-3 Emission EN 55022 class B
Certifications	UL, CSA, GL
Conformity with environmental directives	RoHS, WEEE

Dimensions

