

84870710 : Level control - Level control relay - 35 mm - HNE

- ✓ Control of one or two levels
- ✓ Filling or emptying function
- ✓ HNM: Control by a resistive level probe
- ✓ HNE: Control by a discrete sensor



Part number characteristics	84870710
Sensing	By discrete sensors
Nominal voltage (V)	24 →240 V AC/DC

General characteristics	
Power consumption at Un	5 VA in AC/2.7 W in DC
Immunity from micro power cuts	50 ms
Output	
Type of output	1 single pole changeover relay
Timing	
Maximum reset time	1.7 s
Inputs and measuring circuit	
Measurement range	-
Low sensitivity adjustment (LS)	-
Standard sensitivity adjustment St	-
High sensitivity adjustment (HS)	-
Adjustment of sensitivity	-
Display precision	±10% of full scale
Measuring error with temperature drift	0.5% / °C in standard sensitivity
Measuring error with voltage drift	0%/V across the whole range
Max. voltage at probe terminals	12 V
Max. current via probes	40 mA
Max. length of probe cables	-
Max. capacity of probe cable (nF)	1 nF for HS range 2.2 nF for St range 4.7 nF for LS range
Input circuit 3-wire sensors	✓
General characteristics	
Weight	110 g

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 →264 V AC/DC
Polarity with DC voltage	No
AC supply voltage frequency	50/60 Hz ± 10%
Galvanic isolation of power supply/measurement	✓
Timing	
LED jaune	
Delay on threshold crossing	0.1 →5 s (0, + 10%)
Repetition accuracy with constant parameters	± 2%
Delay on pick-up	600 ms
Output	
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

84870710 Microcontrol

Breaking capacity (resistive)	1 250 VA AC
Maximum rate	360 operations/hour at full load
Operating categories acc. to IEC 60947-5-1	AC12, AC 13, AC 14, AC 15, DC 12, DC 13
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 MΩ / 500 V DC
General characteristics	
Display power supply	Green LED
Display relay	Yellow LED
Delay	Yellow LED
Casing	35 mm
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: IP20 Casing: IP30
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 / IEC 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 2002/EN 61000-6-3 IEC 61000-6-4/IEC 61000-6-3 Emission EN 55022 class A
Certifications	UL, CSA, GL
Conformity with environmental directives	RoHS, WEEE

Dimensions

