

84870700 : Level control - Level control relay - 35 mm - HNM

- ✓ 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 | 84870700 |
|-----------------------------|---------------------|
| Sensing | By resistive probes |
| Nominal voltage (V) | 24 →240 V AC/DC |

| General characteristics | |
|--|---|
| Power consumption at Un | 5 VA in AC/1.5 W in DC |
| Immunity from micro power cuts | 90 ms max. in AC/ 100 ms max. in DC |
| Output | |
| Type of output | 1 double changeover relay |
| Timing | |
| Maximum reset time | 4 s |
| Inputs and measuring circuit | |
| Measurement range | 250 Ω →1 MΩ |
| Low sensitivity adjustment (LS) | 250 Ω →5 kΩ |
| Standard sensitivity adjustment St | 5 kΩ →100 kΩ |
| High sensitivity adjustment (HS) | 50 kΩ →1 MΩ |
| Adjustment of sensitivity | 5 →100% of the selected range |
| Display precision | ± 10% of full scale for LS and St ranges ✓ 40% / +10% of full scale for HS range |
| 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 | 5 V / 500 Hz ± 10% |
| Max. current via probes | < 1 mA |
| Max. length of probe cables | 100 m |
| 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 | No |
| General characteristics | |
| Weight | 115 g |
| * Création * | |

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 |
| 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

