

- › **HNM**
- › **Monitoring Relays**
- › **Level Monitoring Relays**
- › **DIN Rail Mount 35 mm**

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



Specifications		
Sensing	Nominal voltage (V)	Code
By resistive probes	24 →240 V AC/DC	84870700

Power 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	No

Time delays	
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

Outputs	
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 ⁵
Breaking capacity (resistive)	1250 VA AC
Maximum rate	360 operations/hour at full load
Operating categories acc. to IEC/EN 60947-5-1	AC12, AC 13, AC 14, AC 15, DC 12, DC 13
Mechanical life (operations)	30 x 10 ⁶

Insulation	
Nominal insulation voltage IEC/EN 60664-1	250 V
Insulation coordination (IEC/EN 60664-1)	Overvoltage category III : degree of pollution 3
Rated impulse withstand voltage (IEC/EN 60664-1)	4 KV (1,2 / 50 µs)

Insulation	
Dielectric strength (IEC/EN 60664-1)	2 KV AC 50 Hz 1 min.
Insulation resistance (IEC/EN 60664-1)	> 500 MOhm(s) / 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/EN 60529)	Terminal block : IP20 Casing : IP30
Connecting capacity IEC/EN 60947-1	Rigid : 1 x 4 ² - 2 x 2.5 ² mm ² 1 x 11 AWG - 2 x 14 AWG Flexible with ferrules : 1 x 2.5 ² - 2 x 1.5 ² mm ² 1 x 14 AWG - 2 x 16 AWG
Max. tightening torques IEC/EN 60947-1	0,6 → 1 Nm / 5,3 → 8,8 Lbf.In
Operating temperature IEC/EN 60068-2	-20 → +50 °C
Storage temperature IEC/EN 60068-2	-40 → +70 °C
Humidity IEC/EN 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/EN 60068-2-6	5 g

Standards	
Marking	CE (DBT) 2006/95/EC - EMC 2004/108/EC
Product standard	NF EN 60255-6 / IEC 60255-6 / UL 508 / CSA C22.2 N°14
Electromagnetic compatibility (EMC)	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
Conformity with environmental directives	RoHS

Dimensions	
HNM-HNE	

Curves	

