

- › **MNS**
- › **Monitoring Relays**
- › **Level Monitoring Relays**
- › **DIN Rail Mount 17.5 mm**

› Level control by means of a discrete sensor



Specifications		
Sensing	Nominal voltage (V)	Code
By discrete sensor	24 →240 V AC/DC	84870720

Power 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

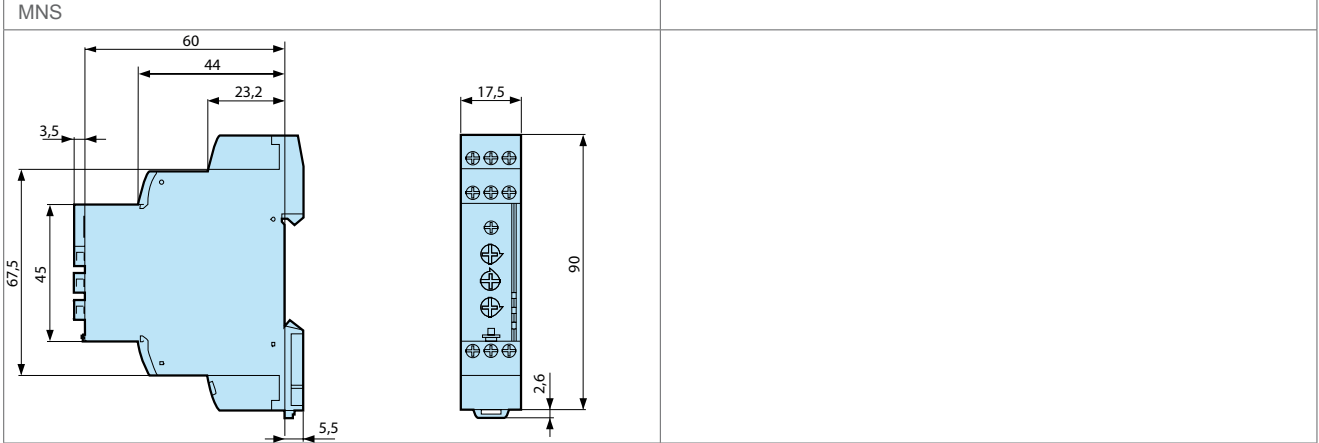
Inputs and measuring circuit	
Display precision	±10% of full scale
Digital probe input circuit	Volt-free contact
Max. voltage at probe terminals	Supply voltage Un
Minimum pushbutton activation duration	50 ms
Max input current	1 mA
Max. length of probe cables	100 m

Time delays	
Delay on threshold crossing	1 →10 s, (1/+10%)
Repetition accuracy with constant parameters	± 0,5%
Reset time	< 100 ms

Outputs	
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 <sup>5</sup>

Outputs	
Breaking capacity (resistive)	1250 VA AC
Maximum rate	360 operations/hour at full load
Operating categories acc. to IEC/EN 60947-5-1	AC 12, AC 13, AC 14, AC 15, DC 12, DC 13, DC 14
Mechanical life (operations)	30 x 10 <sup>6</sup>
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)
Dielectric strength (IEC/EN 60664-1)	2 kV AC 50 Hz 1 min
Insulation resistance (IEC/EN 60664-1)	> 500 Ohm(s) / 500 V DC
General characteristics	
Display power supply	Green LED
Display relay	Yellow LED
Casing	17,5 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 : IP 20 Casing : IP 30
Weight	80 g
Connecting capacity IEC/EN 60947-1	Rigid : 1 x 4 <sup>2</sup> - 2 x 2.5 <sup>2</sup> mm <sup>2</sup> 1 x 11 AWG - 2 x 14 AWG Flexible with ferrules : 1 x 2.5 <sup>2</sup> - 2 x 1.5 <sup>2</sup> mm <sup>2</sup> 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/EN 60068-2-6	10 → 150 Hz, A = 0.035 mm
Shocks IEC/EN 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 (EMC)	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**



**Curves**

**Connections**

