

> FN

> Monitoring Relays

> Level Monitoring Relays

> DIN Rail Mount 45 mm

- > Automatic control and regulation of liquid levels.
- > 2 sensitivity ranges.
- > Filling or emptying function selected via dip switch.
- > High or low alarm selected via dip switch.
- > Memory can be selected.
- > LEDs indicate state of power supply, output relay and alarm relay.



Specifications	
Voltages	Code
24 VAC	84870501

Specifications	
Voltages	Code
48 VAC	84870502

Specifications	
Voltages	Code
120 VAC	84870503

Specifications	
Voltages	Code
230 VAC	84870504

Power supply characteristics	
Supply voltage Un	230, 120, 48 and 24 V AC 50/60 Hz galvanic isolation via transformer
Operating range	0.85 to 1.15 Un except 120 V AC : 0.85 to 1.1 Un
Nominal power	3 VA at Un
Maximal power	4 VA at Un + 15 %
Immunity from micro power cuts	10 ms
Delay on pick-up	T1 = approx. 2 s
Response time on power up	T4 = 500 ms
Insulation coordination	Category III, degree of pollution 2 conforming to IEC/EN 60664-1 : 4 kV/2

Control technical characteristics	
Sensitivity range FN	5 kOhm(s) →100 kOhm(s)
Sensitivity range FHLS	250 Ohm(s) →5 kOhm(s)
Display precision	± 30 % with maximum sensitivity
Electrode voltage	15 V AC (50/60 Hz)
Electrode current	1 mA
Response time on immersion	T2 = 400 ms

Control technical characteristics	
Response time on emersion	T3 = 700 ms

Output characteristics	
Output	2 AgCdO changeover
Breaking capacity	FN LS : 2000 VA FN : 80 W
Maximum breaking current	FN LS : 8 A AC FN : 8 A DC
Minimum breaking current	FN LS : 100 mA AC FN : 100 mA DC
Max. breaking voltage	FN LS : 250 V AC FN : 250 V DC
Mechanical life (operations)	2 x 10 ⁶
Electrical life AC 12	2000 VA - 10 ⁵ operations
Electrical life AC 15	Cos φ = 0,3 - 6000 operations
Electrical life AC 13	L/R = 300 ms - 6000 operations

General characteristics	
Housing material	Self-extinguishing
Terminal capacity	2 x 1,5 mm ² with ferrule 2 x 2,5 mm ² without ferrule
Temperature limit operation (IEC 68.1.14) (°C)	-20 → +60
Temperature limits stored (IEC 68.1.1/2) (°C)	-30 → +70
Relative humidity (no condensation)	93 % (+2% ; -3%)
Weight (g)	280

Dimensions	
FN / FN LS	

Connections	
Regulating with "up" filling control	