

DESCRIPTION

A level control relay for most conductive fluids. With a 2 or 3 wire probe, one or two levels in a container can be controlled.

The probe is a conducting rod, the length of which can be adjusted to the container and the levels which have to be controlled. To control 1 level (2-wire probes), one of the probes is constantly covered by the fluid and the length of the probe dictates the level. To control 2 levels (3-wire probes), one of the probes is constantly covered by fluid and the length of the two other probes dictates min. and max. levels.

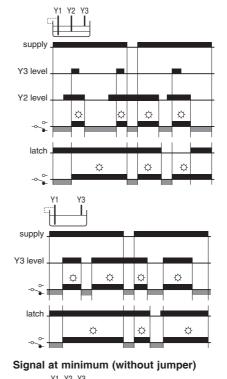
As conductivity will differ from fluid to fluid, the sensitivity can be adjusted on the front panel, to adjust the reaction time from the time the actual level is registered, to the relay being energised/deenergised.

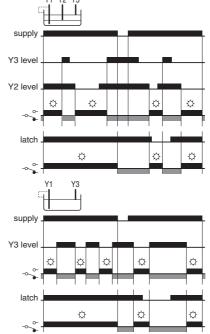
Features

- Monitoring/control of levels of conducting fluids via 2 or 3 wire probes.
- Signal at max. and min. level in the same version.
- Sensitivity adjustable on input 5 50kOhm.
- Response time adjustable 0,1 5 sec.
- Automatic locking (Latch).
- Output SPDT.
- Supply voltage 24/115VAC or 24/230VAC and 24VDC.

OPERATION

Signal at maximum (with jumper).





VERSION/ORDERING CODES

Type: Level relay

Supply voltage 24V DC

115V AC / 24V AC 230V AC / 24V AC

MXL-10	
924 115 — 230	
230	

MXL-10 230

37.11

INTRO...

MCP-10

MCU-10 DV/AV

MCU-10 DC/AC

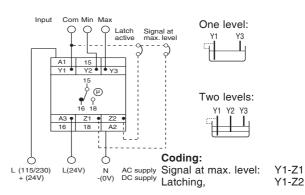
TECHNICAL DATA

Input: Sensitivity: Probe Voltage: Probe current: Temperature drift: Hysteresis: Reaction time: Probe Cabel:	5kOhm-50kOhm, adjustable. Max. 12Vp-p AC, 1kHz. Max. 360µA. Max. 0,05%/°C. <0,1%. 0,1-5s, adjustable. Max. length 100m. Capacity max. 10nF. Isolation resistance>220kOhm.
Output: SPDT relay: Max in rush current: Min in rush current: Frequency :	Contact material, AgNi 0,15 with hardened gold plating Au. Max. load AC: 8A/240V AC (cosφ=1) Max. breaking capasity 2000VA. Inductive load. See fig.1. Max. load DC: 8A/24V DC. Max. breaking capasity 50-270W. See fig.2. 15A (max. 4s/duty cycle less than 10%). 10mA, 24V DC. Max. 1000 operations pr. hour.
Life time: Delay:	Mech. Min. 3 x 10^7 operations. Elect. Min. 1 x 10^5 operations with full load. <20ms.
Supply voltage: Versions: Net frequency: Consumption:	924=24V DC (20,4-27,6)V DC 115=24/115V AC (20,4-27,6 /98-132)V AC 230=24/230V AC (20,4-27,6/196-264)V AC 45-65Hz AC; 3VA DC; 2W

General data::

Ambient temperature Storage temperature Mounting: Terminals:	
Indicators:	Green LED = operating voltage Red LED = relay switched on.
Protection:	IP20
Electric isolation:	3,75kVAC (1 min.) between input, supply and relay output (EN60950)
Housing: Terminal block: Weight:	Noryl (GE), ÚL94V1. Noryl (GE), UL94V0. 180 g.

WIRING DIAGRAM



SPECIFICATIONS:

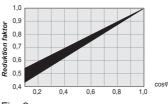
MXL-10 is designed and developed with regard to relevant specifications:

- EN60204-1 / VDE0113 electrical material on machines.
- VDE0110 / IEC664 Isolation specifications/creepage and clearance distances.
- Electrical safety in accordance with EN61010.
- IEC414 Safety regulations for control and monitoring equipment.
- EMC: Emission EN50081-1.
- Immunity EN50082-2. Humidity in accordance with IEC68-2-3; RH=95%, 40°C.
- Vibration in accordance with IEC68-2-6:
- · Shock when mounted, in accordance with IEC68-2-27.

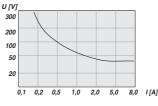
MXL-10 is CE-marked in accordance with EMC-and the Low Voltage Directive.

OUTPUT LOAD DIAGRAMS

Fig. 1







MECHANICAL DIMENSIONS

