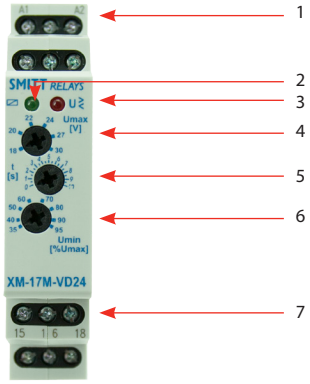
XM-17M-VD24 - Voltage monitoring relay, 16 A, 1 C/O
Manual

Description

The XM-17M-VD24 is a 1-phase voltage monitoring relay against under- and overvoltage with a range of 6...30 VDC and an adjustable time delay of 0...10 seconds.

The Umax can be set within a range of 18...30 VDC, Umin can be set within 30...95 % of the range of Umax.

Layout



1. Supply terminals
2. Supply indication (green LED)
3. Output indication (red LED)
4. Umax setting
5. Time setting
6. Umin setting
7. Output contacts

Technical information

Supply voltage	6...30 VDC
Contacts	1 C/O contact
Rated current	16 A / AC1
Inrush current	30 A ≤ 3 s
Adj. overvoltage (Umax)	18...30 VDC
Adj. overvoltage (Umin)	35...95 % of Umax
Ambient temperature	-20 °C...+55 °C

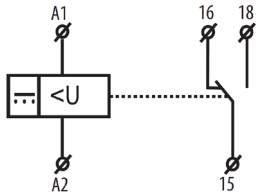
Mors Smitt B.V.
Vrieslantlaan 6
3526 AA Utrecht
the Netherlands

T +31 (0)30 288 13 11
E sales.msbv@wabtec.com

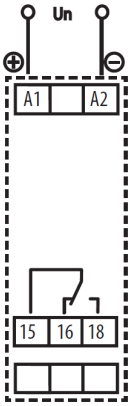
www.morssmitt.com

MAN-XM-17M-VD24 V1.0 Nov 2013

Connection diagram



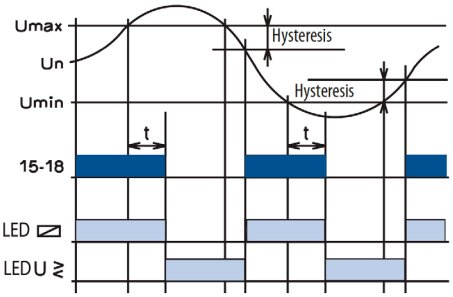
Connection



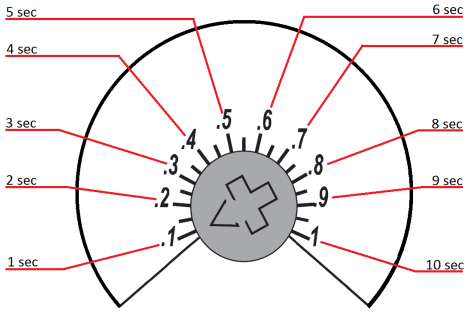
Function

Energising of the coil will start the measurement. When the voltage drops below the set Umin or overrides the set Umax, the set timing will start.

When the selected time has expired the contact switches.

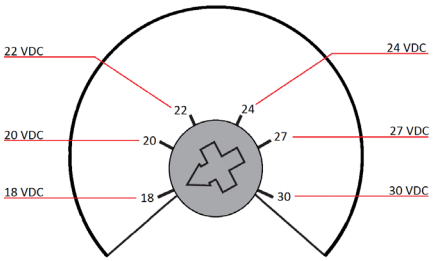


Time delay setting



The time delay can be set 1...10 seconds.

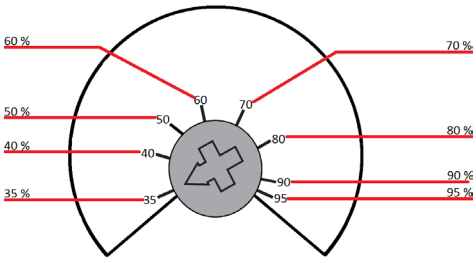
Overvoltage setting (Umax)



Select the maximum overvoltage.

Undervoltage setting (Umin)

The undervoltage setting (Umin) can be set within 35...95% of the selected overvoltage (Umax).



Example: if the overvoltage setting is 24 VDC, the undervoltage can be set between 8.4 VDC (35 %) and 22.8 VDC (95 %).

Installation
- Install and connect wiring according the identification on the terminals and connection diagram
- Do not reverse the polarity of the coil connection
- Relays can be mounted next to each other
- Warning! Never use silicon near the relays

Operation
- Before first operation; always apply voltage to supply and check correct operation
- Switching the load a few times before first use is advisable
- When the LED is green, coil voltage is indicated
- When the relay does not operate but coil voltage is present, coil polarity can be reversed
- Warning: Do not use the relay in locations with flammable gas, as the arc generated by switching could ignite the gas

Maintenance
- If the relay does not operate correctly, check the presence of the coil voltage by using a multimeter
- If the relay does not work after inspection, replace the relay by a similar model