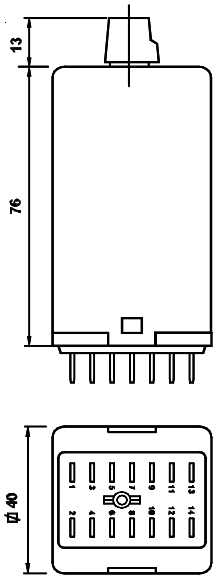
MONITORING RELAY

Product **UMD**
voltage monitoring relay

Country of Origin: **The Netherlands**

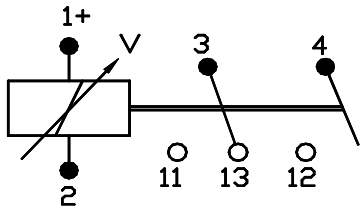
Dimensions



Company

P.O. Box 7023
3502 KA Utrecht
The Netherlands
T +31 (0)30-288 13 11
F +31 (0)30-289 88 16
E sales@nieaf-smitt.nl
I www.nieaf-smitt.nl

Connection Diagram



Description

Electronic plug-in voltage monitoring relay with one change-over contact and one NO contact.
The UMD does not need auxiliary supply.
Equiped LEDs that indicates energization and contact switching.
The pull in voltage is adjustable and lockable with a knob. Fixed settings are possible.
The UMD relays are pluggable into standard D-relay bases.

Input data

Type	U_{nom} (V) AC	U_{nom} (V) DC	$U_{adj,\ min}$ (V)	$U_{adj,\ max}$ (V)	Power consumption
UMD-C1	240		165	280	< 6.0 VA
UMD-1	220		150	260	< 6.0 VA
UMD-01	110		80	140	< 1.4 VA
UMD-41	24		18	30	< 0.6 VA
UMD-91		220	150	260	< 1.6 W
UMD-81		110	80	140	< 1.0 W
UMD-61		48	35	60	< 0.6 W
UMD-31		24	18	30	< 0.3 W

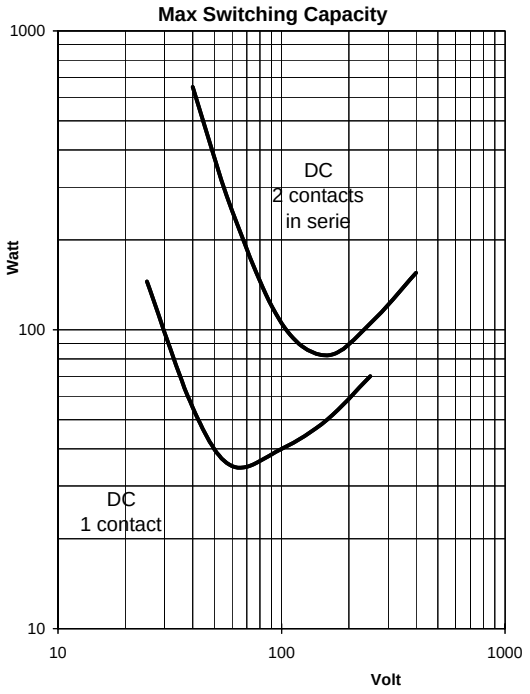
Other voltages or times on request

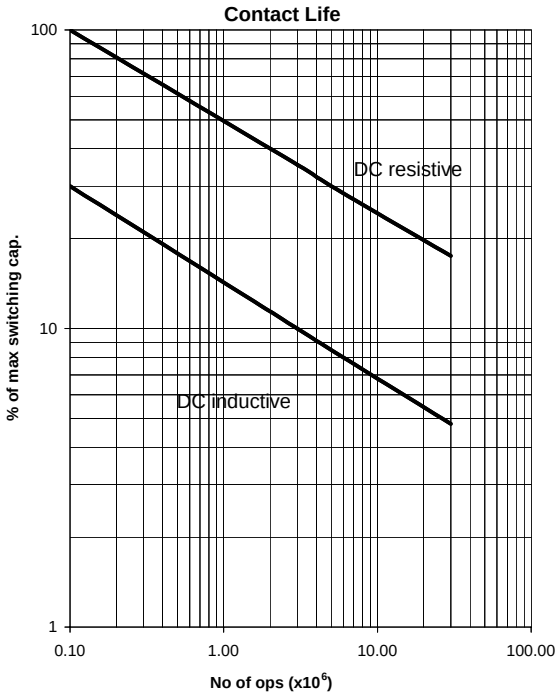
Max. permissible continuous voltage	**130 % U_{nom}**
Max. permissible ripple for DC-types	**20%**
Voltage-temperature factor	**± 0.1 %/K**
Repeat accuracy	**± 2 %**
Hysteresis	**∗ 2 %**
Delay time for pull in and drop out	**approx. 0.2 s**
Scale accuracy	**± 2.5 %**

Contact data

Max. Make Current	**15 A**	**Material**	**Ag + 0.2 µm Au**
Max. Cont. Current	**6 A (AC1 ; IEC 60947)**	**Contactgap**	**0.3 mm**
Max. Breaking Capacity		**Insulation between**	**1 kV,**
DC	**300 V,300 mA**	**open contacts**	**50 Hz, 1 min**
AC	**250 V, 2.6 A**	**Contactforce**	**> 20 cN**
Min. Switching Voltage	**4V/2mA/0.1W-VA**	**Note: contacts cannot have a different**	
Max. Contact Resistance	**15 m Ω**	**position. (Forced contacts, Weld no transfer)**	

Maximum Switching Capacity and Contact life





General Data

Dielectric strength		
Cont-Coil	**IEC 60077**	**2 kV, 50 Hz, 1 min**
Pulse Withstanding	**IEC 60255-5**	**5 kV (1.2/50 µs)**
Vibration	**IEC 60077** **IEC 60571-1** **IEC 60068-2-6**	**3 g at 50 Hz**
Shock	**IEC 60077**	**5 g at 50 Hz**
Mechanical life		**$30*10^6$ ops**
Max. Switching Frequency		**1200 ops/h**
Weight		**130 g**
Temperature	**$T_{amb,max}$** **$T_{amb,min}$**	**+50 °C** **0 °C**
Humidity		**80%, condensation not permitted**
Protection		**IP 40**
Materials		**Makrolon** **Polyester**

Australian Distributor

Relay Monitoring Systems Pty Ltd
6 Anzed Court
Mulgrave, Victoria, 3170, Australia

Phone: +61 3 8544 1200
Fax: +61 3 8544 1201
Email: rms@rmspl.com.au
Web: www.rmspl.com.au