

## MONITORING RELAY

|   |  |
|---|--|
| <b>Product</b> <b>UMD</b><br>voltage monitoring relay | <b>Country of Origin:</b> <b>The Netherlands</b>   |
| <b>Dimensions</b>                                     | <b>Company</b>   |
|   | <div style="display: flex; align-items: center;"> <div style="flex: 1;">           P.O. Box 7023<br/>           3502 KA Utrecht<br/>           The Netherlands<br/>           T +31 (0)30-288 13 11<br/>           F +31 (0)30-289 88 16<br/>           E sales@nieaf-smitt.nl<br/>           I www.nieaf-smitt.nl         </div> <div style="flex: 1; text-align: center;"> </div> </div> |
| <b>Connection Diagram</b>                             |  |
|   |  |

**Description**

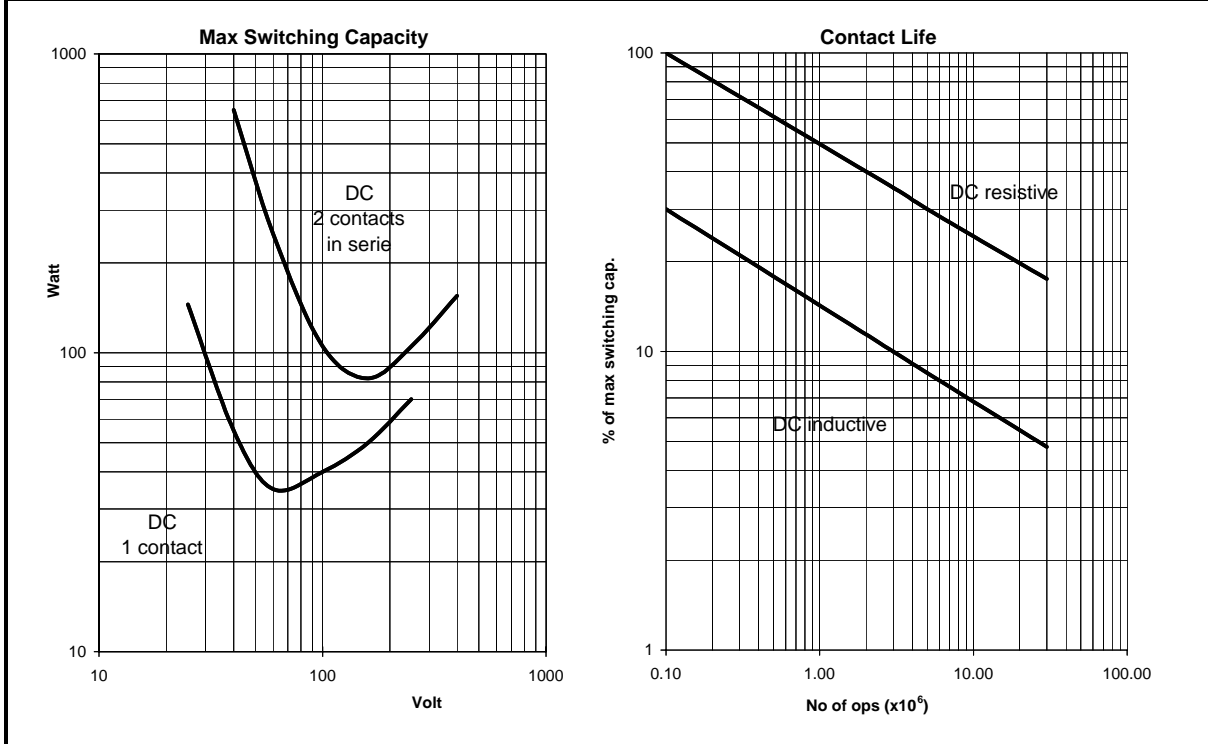
Electronic plug-in voltage monitoring relay with one change-over contact and one NO contact. The UMD does not need auxiliary supply. Equiped LEDs that indicates energization and contact switching. The pull in voltage is adjustable and lockable with a knob. Fixed settings are possible. The UMD relays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

| Input data |                         |                         |                           |                           |                   |
|------------|-------------------------|-------------------------|---------------------------|---------------------------|-------------------|
| Type       | U <sub>nom</sub> (V) AC | U <sub>nom</sub> (V) DC | U <sub>adj, min</sub> (V) | U <sub>adj, max</sub> (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 <sub>nom</sub> |
| 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  | DC 300 V, 300 mA      | Insulation between open contacts   | 1 kV, 50 Hz, 1 min |
|                         | AC 250 V, 2.6 A       |  | Contactforce       |
| Min. Switching Voltage  | 4V/2mA/0.1W-VA        | Note: contacts cannot have a different position. (Forced contacts, Weld no transfer) |                    |
| Max. Contact Resistance | 15 m Ω                |  |                    |

**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<br>IEC 60571-1<br>IEC 60068-2-6 | 3 g at 50 Hz                    |
| Shock                    | IEC 60077                                 | 5 g at 50 Hz                    |
| Mechanical life          |   | 30*10 <sup>6</sup> ops          |
| Max. Switching Frequency |   | 1200 ops/h                      |
| Weight                   |   | 130 g                           |
| Temperature              | T <sub>amb,max</sub>                      | +50 °C                          |
|                          | T <sub>amb,min</sub>                      | 0 °C                            |
| Humidity                 |   | 80%, condensation not permitted |
| Protection               |   | IP 40                           |
| Materials                |   | Makrolon<br>Polyester           |