

## Preliminary Datasheet

### Dimensions

### Layout 16L Pitch 2.54 / Top View

### Marking

Type - Layout  
 Production-Code  
 EN60062

MEDER electronic  
 DIP12-1A31-16L YW

unspecified tolerances ± 0.1mm  
 nicht spezifizierte Toleranzen ± 0.1mm

| Coil Data at 20 °C | Conditions   | Min | Typ | Max | Unit |
|--------------------|--|-----|-----|-----|------|
| Coil resistance    |  | 360 | 400 | 440 | Ohm  |
| Coil voltage       |  |     | 12  |     | VDC  |
| Rated power        |  |     | 360 |     | mW   |
| Coil current       |  |     | 30  |     | mA   |
| Thermal resistance | max. Relay temperature<br>= operating temperature + self heating |     | 105 |     | K/W  |
| Inductance         |  |     | 104 |     | mH   |
| Pull-In voltage    |  |     |     | 8,4 | VDC  |
| Drop-Out voltage   |  | 1,8 |     |     | VDC  |

| Contact data 31           | Conditions   | Min | Typ | Max | Unit  |
|---------------------------|--|-----|-----|-----|-------|
| Contact rating            | Any DC combination of V & A<br>up to 500V max. 50W, with 1000V max. 5W |     |     | 50  | W     |
| Switching voltage         | DC or Peak AC  |     |     | 500 | V     |
| Switching current         | DC or Peak AC  |     |     | 2   | A     |
| Carry current             | DC or Peak AC  |     |     | 2   | A     |
| Contact resistance static | Measured with 40% overdrive<br>Start Value                             |     |     | 80  | mOhm  |
| Insulation resistance     | RH <45 %, 100 V test voltage   | 1,5 |     |     | TOhm  |
| Breakdown voltage         | according to IEC 255-5   | 2   |     |     | kV DC |
| Operate time incl. bounce | measured with 40% overdrive  |     |     | 1,2 | ms    |
| Release Time              | measured with no coil excitation                                       |     |     | 1   | ms    |
| Capacity                  | @ 10 kHz across open switch  |     | 0,2 |     | pF    |

| Special Product Data               | Conditions             | Min | Typ                       | Max | Unit  |
|------------------------------------|------------------------|-----|---------------------------|-----|-------|
| Number of contacts                 |                        |     | 1                         |     |       |
| Contact - form                     |                        |     | A - NO                    |     |       |
| Dielectric Strength Coil/Contact   | according to IEC 255-5 | 2   |                           |     | kV DC |
| Insulation resistance Coil/Contact | 40°C, 95% R.H.         | 5   |                           |     | TOhm  |
| Capacity Coil/Contact              | @ 10 kHz               |     | 0,8                       |     | pF    |
| Case colour                        |                        |     | black                     |     |       |
| Housing material                   |                        |     | epoxy resin               |     |       |
| Connection pins                    |                        |     | Copper alloy tin plated   |     |       |
| Magnetic Shield                    |                        |     | no                        |     |       |
| Reach / RoHS conformity            |                        |     | no                        |     |       |
| Approval                           |                        |     | UL File No. NRNT2.E156887 |     |       |
| Approval                           |                        |     | UL File No. NRNT8.E156887 |     |       |

Modifications in the sense of technical progress are reserved

Designed at: 13.09.07    Designed by: THAUKE  
 Last Change at: 20.07.10    Last Change by: WKOVACS

Approval at: 13.09.07    Approval by: RRIPL  
 Approval at:                    Approval by:

Version: 05



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Item No.:  
**3212131016**  
Item:  
**DIP12-1A31-16L**

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| Environmental data    | Conditions                  | Min | Typ | Max | Unit         |
|-----------------------|-----------------------------|-----|-----|-----|--------------|
| Shock                 | 1/2 sine wave duration 11ms |     |     | 50  | g            |
| Vibration             | from 10 - 2000 Hz           |     |     | 20  | g            |
| Operating temperature |                             | -20 |     | 70  | °C           |
| Storage temperature   |                             | -35 |     | 95  | °C           |
| Soldering temperature | wave soldering max. 5 sec.  |     |     | 260 | °C           |
| Washability           |                             |     |     |     | fully sealed |

| General data | Conditions | Min | Typ | Max | Unit              |
|--------------|------------|-----|-----|-----|-------------------|
| Total weight |            |     | 1,4 |     | g                 |
| Packaging    |            |     |     |     | Tube per 25 piece |

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Approval at: Approval by:

Version: 05