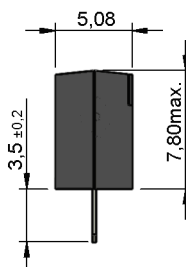
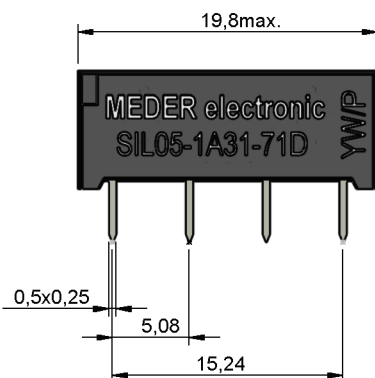


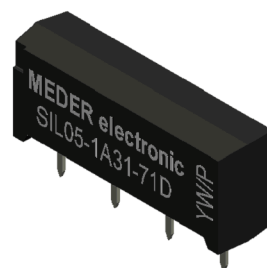
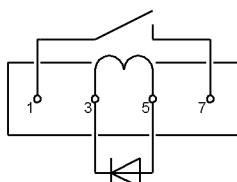
### Dimensions mm[inch]

tolerances acc. to DIN ISO 2768-m  
Toleranzen gem. DIN ISO 2768-m

### Isometric

 Scale 2:1  
Maßstab 2:1


### Layout

 Top view  
Draufsicht


### Marking

 according to EN60062/factory code  
gem. EN60062/Fertigungsstätte

**MEDER electronic**  
**SIL05-1A31-71D** YW/P

| Coil Data at 20 °C | Conditions                                                       | Min  | Typ | Max | Unit |
|--------------------|------------------------------------------------------------------|------|-----|-----|------|
| Coil resistance    |                                                                  | 72   | 80  | 88  | Ohm  |
| Coil voltage       |                                                                  |      | 5   |     | VDC  |
| Rated power        |                                                                  |      | 312 |     | mW   |
| Thermal resistance | max. Relay temperature<br>= operating temperature + self heating |      | 109 |     | K/W  |
| Pull-In voltage    |                                                                  |      |     | 3,5 | VDC  |
| Drop-Out voltage   |                                                                  | 0,75 |     |     | VDC  |

| Contact data 31            | Conditions                                                             | Min         | Typ | Max | Unit |
|----------------------------|------------------------------------------------------------------------|-------------|-----|-----|------|
| Contact-material           | independent on position                                                | Hg          |     |     |      |
| Switching suitability      |                                                                        | bounce free |     |     |      |
| 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 |
| Contact resistance dynamic | Maximum value 1,5 ms after excitation<br>Start Value                   |             |     | 130 | mOhm |
| Insulation resistance      | RH <45 %, 100 V test voltage                                           | 100         |     |     | GOhm |
| Breakdown voltage          | according to EN 60255-5                                                | 1.500       |     |     | VDC  |
| 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                                            |             | 0,3 |     | pF   |

| Special Product Data               | Conditions                         | Min                   | Typ | Max | Unit  |
|------------------------------------|------------------------------------|-----------------------|-----|-----|-------|
| Contact - form                     |                                    | A - NO                |     |     |       |
| Dielectric Strength Coil/Contact   | according to EN 60255-5            | 2                     |     |     | kV DC |
| Insulation resistance Coil/Contact | RH <45%, 200 VDC measuring voltage | 1                     |     |     | TOhm  |
| Case colour                        |                                    | black                 |     |     |       |
| Housing material                   |                                    | epoxy resin           |     |     |       |
| Connection pins                    |                                    | FeNi-alloy tin plated |     |     |       |

| Environmental data | Conditions                         | Min | Typ | Max | Unit |
|--------------------|------------------------------------|-----|-----|-----|------|
| Shock              | 1/2 sine, duration 11ms, in 3 axis |     |     | 50  | g    |



*Products for tomorrow...*

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Item No.:

**3305131171**

Item:

**SIL05-1A31-71D**

| Environmental data    | Conditions                 | Min          | Typ | Max | Unit |
|-----------------------|----------------------------|--------------|-----|-----|------|
| 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 |            |                  | 1,7 |     | g    |
| Packaging    |            | 25 pcs. per tube |     |     |      |

Modifications in the sense of technical progress are reserved

Designed at: 11.09.07    Designed by: THAUKE

Approval at: 03.03.11    Approval by: CRUF

Last Change at: 14.09.12    Last Change by: NMIHAI

Approval at: 18.09.12    Approval by: CRUF

Version: 4