



Cradle relay for alternating voltage, neutral, monostable. High-quality cradle relays for AC are installed as encapsulated flameproof elements in the MODEX enclosure. The IP 66 protection class ensures that the contacts are also protected from aggressive atmospheres.

Applications:  
switching of measuring and control circuits in industrial areas.

## Explosion protection

|  |  |
|--|--|
| Marking ATEX   | II 2G Ex db e IIC Gb<br>I M2 Ex db e I Mb                |
| Certification  | PTB 97 ATEX 1068 U                                       |
| Marking IECEx  | Ex db e IIC or Ex d e IIC Gb<br>Ex db e I or Ex d e I Mb |
| Certification  | IECEx PTB 11.0083U                                       |
| Other approvals and certificates, see <a href="http://www.bartec.de">www.bartec.de</a> |  |

## Technical data

|                      |  |
|----------------------|--|
| Enclosure material   | High-quality thermoplastics                                      |
| Protection class     | Module IP 66 EN/IEC 60529<br>Terminals IP 20 EN/IEC 60529        |
| Terminals            | 2.5 mm <sup>2</sup> , fine stranded                              |
| Mounting rail        | TH 35 x 7.5 (15) EN/IEC 60715                                    |
| Terminal designation | written marking labels   |
| Ambient temperature  | -25 °C to +50 °C at T6 mounted in sequence on TH at 5 mm spacing |
| Storage temperature  | -40 °C to +70 °C   |
| Weight               | 0.500 kg   |

## Electrical data

| Operating data (coil circuit) |                         |
|-------------------------------|-------------------------|
| $U_N$                         | $I_N$ (8 contact decks) |
| AC 110 V                      | 25 mA                   |
| AC 120 V/50 Hz                | 28 mA                   |
| AC 120 V/60 Hz                | 25 mA                   |
| AC 220 V                      | 13 mA                   |
| AC 230/240 V                  | 13 mA                   |

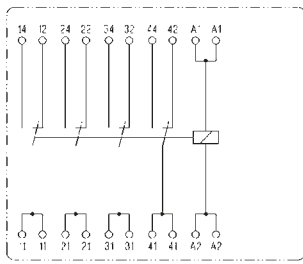
|                     |  |
|---------------------|--|
| Contact data        | Switching voltage: $U_{A,max.} = AC/DC 125 V$<br>Switching current: $I_{max.} = 1 A$ (per contact) |
| Switching capacity  | $P_{max.} = 40 W/50 VA$  |
| Contact material    | silver, gold-flashed   |
| Contact arrangement | 4 changeovers; 8 NO; 4 NO/4 NC   |

### Note

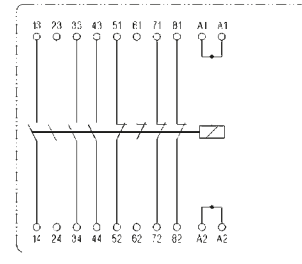
For use with inductive loads the relays can be connected with an effective suppressor in order to protect the contacts.

| Other datas              | AC types  |
|--------------------------|---|
| Max. switching frequency | 20 (switching cycles/sec.)  |
| Mech. service life       | approx. $10^7$ (switching cycles)   |
| Test voltage             | coil/contact ( $V_{rms}$ )<br>500 at $U_N \leq 60 V$ , 2 000 at $U_N > 60 V$<br>500 contact/contact ( $V_{rms}$ ) |

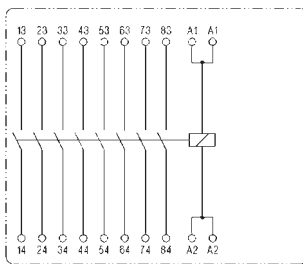
Wiring diagrams/terminal assignments



4 changeovers

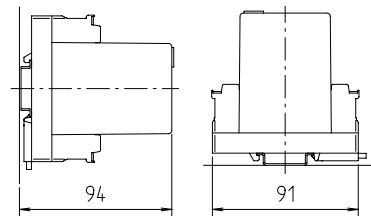


4 NO/4 NC



8 NO

Dimensions/mounting positions



Module width: 75 mm

Ordering information

| Contacts      | Code no. | Voltage        | Code no. |
|---------------|----------|----------------|----------|
| 4 changeovers | <b>4</b> | AC 110 V       | <b>G</b> |
|               |          | AC 220 V       | <b>H</b> |
| 8 NO          | <b>C</b> | AC 230 V/240 V | <b>J</b> |
|               |          | AC 120 V/60 Hz | <b>R</b> |
| 4 NO/4 NC     | <b>H</b> |                |          |

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Please enter code number. Technical data subject to change without notice.

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Cradle relay for direct voltage, neutral, monostable. High-quality cradle relays for DC are installed as encapsulated flameproof elements in the MODEX enclosure. The IP 66 protection class ensures that the contacts are also protected from aggressive atmospheres.

Applications:  
switching of measuring and control circuits in industrial areas.

**Explosion protection**

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| Marking IECEx  | Ex db e IIC or Ex d e IIC Gb<br>Ex db e I or Ex d e I Mb |
| Certification  | IECEx PTB 11.0083U                                       |
| Marking CSA  | Class I, Zone 1, IIC<br>A/Ex d e IIC Gb                  |
| Certification  | CSA 2011-2484303   |
| Other approvals and certificates, see <a href="http://www.bartec.de">www.bartec.de</a> |  |

**Technical data**

|                      |   |
|----------------------|---|
| Enclosure material   | High-quality thermoplastics                               |
| Protection class     | Module IP 66 EN/IEC 60529<br>Terminals IP 20 EN/IEC 60529 |
| Terminals            | 2.5 mm <sup>2</sup> , fine stranded                       |
| Mounting rail        | TH 35 x 7,5 (15) EN/IEC 60715                             |
| Terminal designation | written marking labels                                    |
| Ambient temperature  | -25 °C to +55 °C at T6                                    |
| Storage temperature  | -40 °C to +70 °C  |
| Weight               | 0.500 kg  |

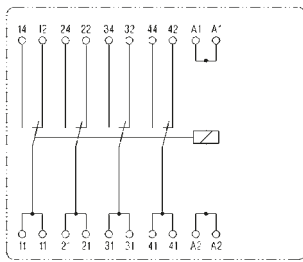
**Electrical data**

| Operating data (coil circuit) |  |
|-------------------------------|--|
| <b>U<sub>N</sub></b>          | <b>I<sub>N</sub></b> (8 contact decks)   |
| DC 15 V                       | 60 mA  |
| DC 24 V                       | 27 mA  |
| DC 48 V                       | 17 mA  |
| Contact data                  | Switching voltage: U <sub>A max.</sub> = AC/DC 125 V<br>Switching current: I <sub>max.</sub> = 1 A (per contact) |
| Switching capacity            | P <sub>max.</sub> = 40 W/50 VA   |
| Contact material              | silver, gold-flashed   |
| Contact arrangement           | 4 changeovers; 8 NO; 4 NO/4 NC   |

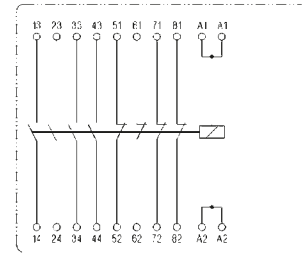
Note  
For use with inductive loads the relays can be connected with an effective suppressor in order to protect the contacts.

| <b>Other datas</b>       | <b>DC types</b>   |
|--------------------------|---|
| Max. switching frequency | 50 (switching cycles/sec.)  |
| Mech. service life       | approx. 10 <sup>8</sup> (switching cycles)                                      |
| Test voltage             | 500 coil/contact (V <sub>rms</sub> )<br>500 contact/contact (V <sub>rms</sub> ) |

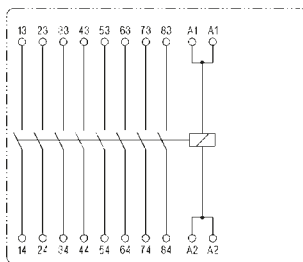
Wiring diagrams/terminal assignments



4 changeovers

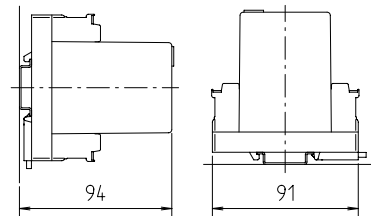


4 NO/4 NC



8 NO

Dimensions/mounting positions



Module width: 75 mm

Ordering information

| Contacts      | Code no. | Voltage | Code no. |
|---------------|----------|---------|----------|
| 4 changeovers | <b>4</b> | DC 15 V | <b>8</b> |
| 8 NO          | <b>C</b> | DC 24 V | <b>3</b> |
| 4 NO/4 NC     | <b>H</b> | DC 48 V | <b>4</b> |

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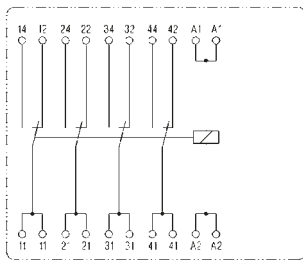
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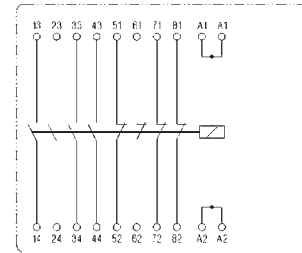
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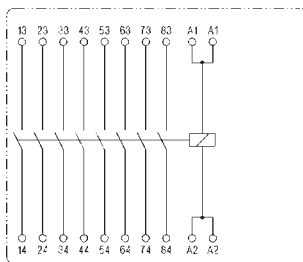
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4 changeovers

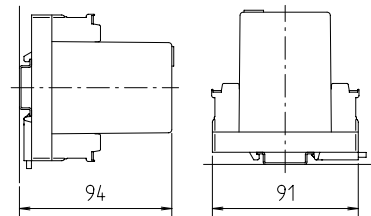


4 NO/4 NC



8 NO

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