

# Data sheet

KRS-E08 HR 24 V AC/DC

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P/N

110667

EAN 4250184122975

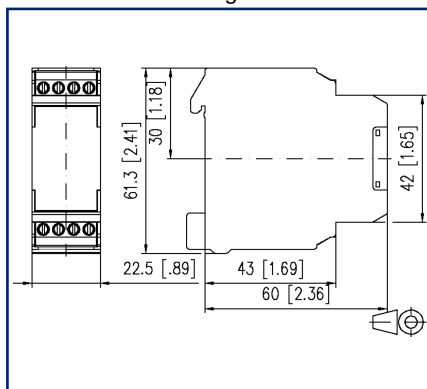
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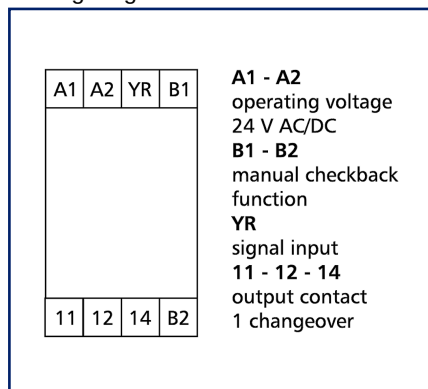
## Illustrations



Dimensional drawing



Wiring diagram



See enlarged drawings at the end of document

## Product specification

The threshold gate switches units, pumps, fans, burners, etc. As soon as the input voltage reaches the switching threshold, the relay is activated. When the input voltage falls below the switch-off threshold, the relay is released again.

- Connection with screw type terminal blocks
- with manual control level

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### Technical Data

#### Supply

|                             |                          |
|-----------------------------|--------------------------|
| Operating voltage           | 24 V AC/DC -10% ... +10% |
| Power consumption AC (max.) | 80 mA                    |
| Power consumption DC (max.) | 16 mA                    |
| Duty cycle relative         | 100 %                    |
| Response time typical       | 20 ms                    |
| Release time typical        | 20 ms                    |

#### Manual control level

|                           |                              |
|---------------------------|------------------------------|
| Mechanical life           | 3x10 <sup>4</sup> switchings |
| Switching capacity (max.) | 24 V AC/DC / 1 A             |

#### Inputs

|                              |          |
|------------------------------|----------|
| Threshold voltage            | 3 V DC   |
| Switch-off voltage           | 2.5 V DC |
| Power consumption            |          |
| Power consumption at 10 V DC | 1 mA     |

#### Outputs

|                                    |                                    |
|------------------------------------|------------------------------------|
| Contacts                           | 1 changeover contact               |
| Contact material                   | AgSnO <sub>2</sub>                 |
| Switching voltage (max.)           | 250 V AC                           |
| Continuous Current                 | 6 A                                |
| Switching frequency                | 1200 switching cycles/h            |
| Breaking capacity (resistive load) |                                    |
| Mechanical life                    | 1x10 <sup>7</sup> switching cycles |
| Electrical life                    | 1x10 <sup>5</sup> switching cycles |
| Indicator                          | yellow LED                         |

#### Insulation coil - contact set

|                                            |                                          |
|--------------------------------------------|------------------------------------------|
| Nominal voltage of the power supply system | 230 / 400 V AC                           |
| Overvoltage category                       | III   II                                 |
| Degree of pollution                        | 2   2                                    |
| Rated test voltage                         | 4 kV   2.5 kV                            |
| Type of insulation                         | basic insulation   reinforced insulation |

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### Technical Data

#### Housing

##### Dimensions

|                       |                                   |
|-----------------------|-----------------------------------|
| Dimension (W x H x D) | 22.5 mm x 61.3 mm x 60 mm         |
| Dimension (W x H x D) | 0.886 in. x 2.413 in. x 2.362 in. |
| Weight                | 70 g                              |
| Mounting style        | Standard rail TH35                |
| Mounting position     | any                               |
| Apposition            | without distance                  |
| Connection type       | Screw type terminal blocks        |

#### Terminal blocks

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| Wire cross section solid             | 0.34 mm <sup>2</sup> - 2.5 mm <sup>2</sup> / AWG 22-12 |
| Wire cross section multi             | 0.25 mm <sup>2</sup> - 2.5 mm <sup>2</sup> / AWG 22-12 |
| Wire cross section with wire ferrule | 0.25 mm <sup>2</sup> - 2.5 mm <sup>2</sup> / AWG 22-12 |
| Screw torque (max.)                  | 0.5 Nm                                                 |
| Stripping length (min.)              | 8 mm                                                   |

#### Material

|                           |                 |
|---------------------------|-----------------|
| Material - Housing        | Polyamid 6.6 V0 |
| Color                     | gray            |
| Material - Terminal block | Polyamid 6.6 V0 |
| Material - Covers         | Polyamid 6.6 V0 |

#### Protection category according to IEC 60529

|                                                           |      |
|-----------------------------------------------------------|------|
| Protection category - housing (acc. to IEC 60529)         | IP40 |
| Protection category - terminal blocks (acc. to IEC 60529) | IP20 |

#### Climatic Data

##### Operating

|                            |                          |
|----------------------------|--------------------------|
| Temperature - Operating °C | -10 °C - 50 °C           |
| Temperature - Operating °F | 14 °F - 122 °F           |
| Relative humidity          | max. 85 % non-condensing |

##### Storage

|                          |                 |
|--------------------------|-----------------|
| Temperature - Storage °C | -25 °C - 70 °C  |
| Temperature - Storage °F | -13 °F - 158 °F |



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## Technical Data

### Power loss

Power loss (typical) 1.2 W

### Classifications

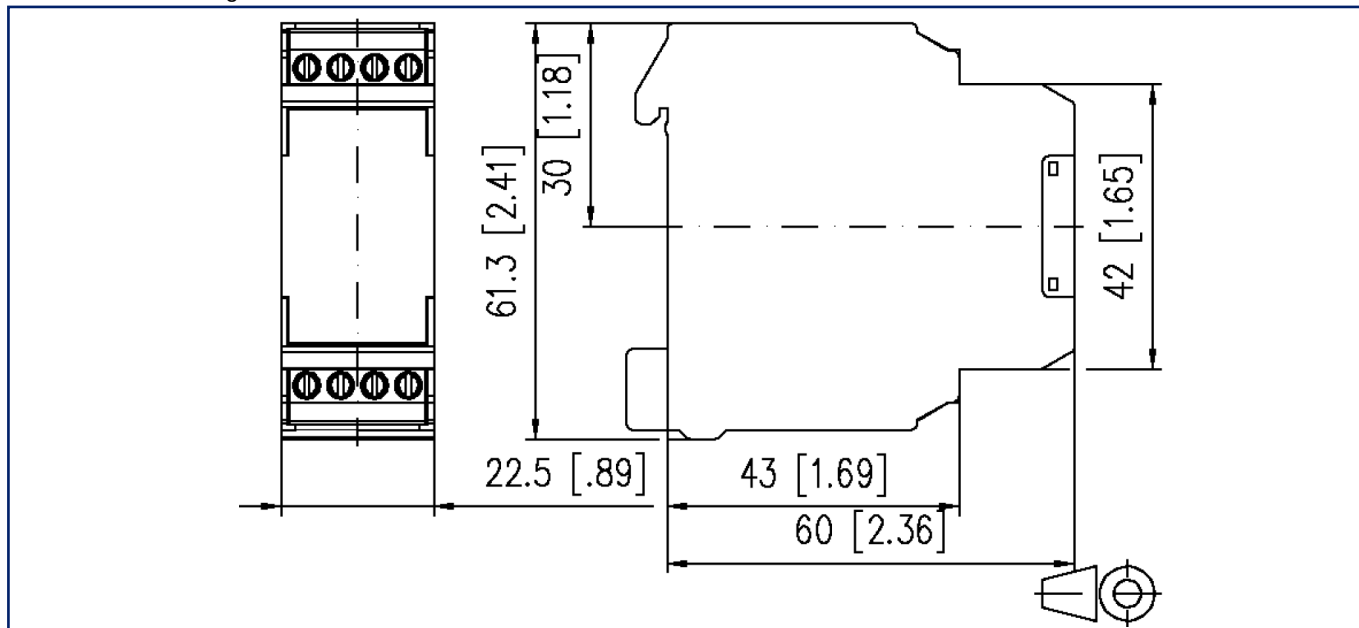
|           |          |
|-----------|----------|
| ETIM 7.0  | EC001437 |
| ETIM 8.0  | EC001437 |
| ETIM 9.0  | EC001437 |
| ETIM 10.0 | EC001437 |

### Application note

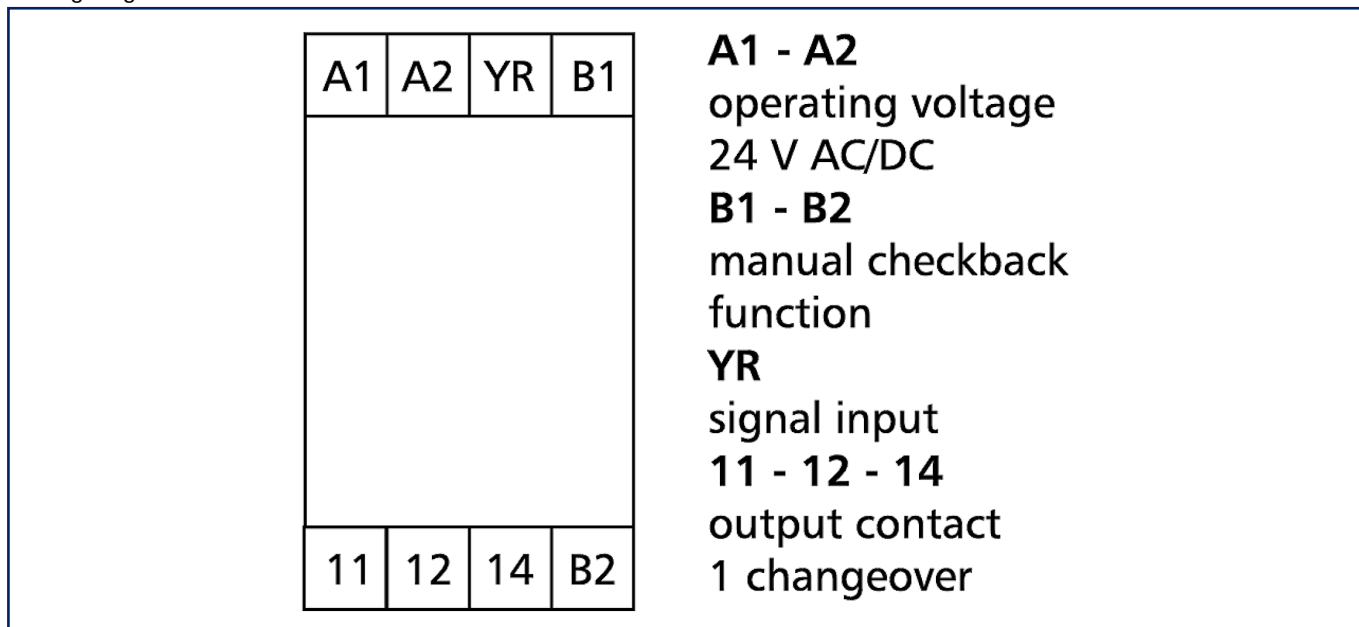
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## Illustrations

Dimensional drawing

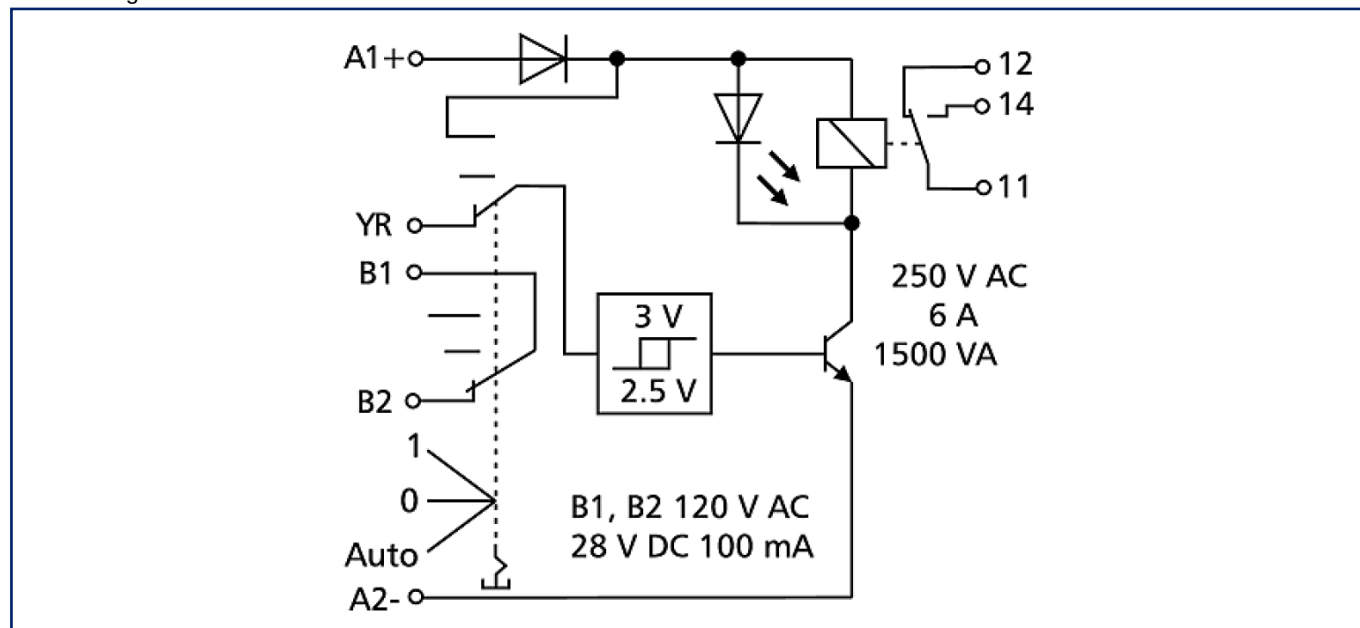


Wiring diagram



## Illustrations

Circuit diagram



Function diagram

