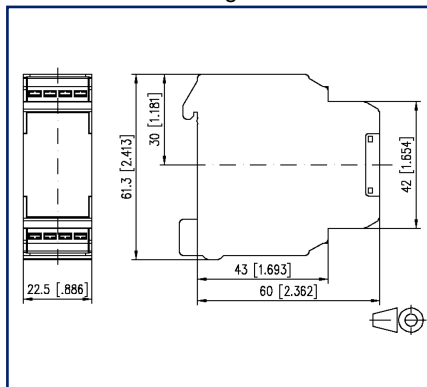


## Illustrations



## Dimensional drawing



## Wiring diagram

A1	B1	Y	A2
24	11	12	B2

**A1 - A2**  
operating voltage  
24 V AC/DC  
**B1 - B2**  
manual checkback  
function  
**YR**  
signal input  
**11 - 12 - 24**  
output contact  
1 changeover

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. The module is designed for a two-level control by means of an analog 0 to 10 V DC control signal.

- Connection with spring clamp terminal blocks (push-in)
- Control signal 0 V DC = Level 1 active
- Control signal 5 V DC = No level is active (OFF)
- Control signal 10 V DC = Level 2 active
- with manual control level

### Technical Data

#### Supply

Operating voltage	24 V AC/DC -10% ... +10%
Power consumption AC (max.)	100 mA
Power consumption DC (max.)	35 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

Power consumption	
Power consumption at 10 V DC	1 mA

#### Outputs

Contacts	1 changeover contact with 0 position
Contact material	AgSnO <sub>2</sub>
Switching voltage (max.)	250 V AC
Continuous Current	4 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	Level 1: yellow LED, Level 2: green 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

## 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	Spring clamp terminal blocks

### Terminal blocks

Wire cross section solid	0.2 mm <sup>2</sup> - 2.5 mm <sup>2</sup> / AWG 24-14
Wire cross section multi	0.25 mm <sup>2</sup> - 2.5 mm <sup>2</sup> / AWG 24-12
Wire cross section with wire ferrule	0.25 mm <sup>2</sup> - 1.5 mm <sup>2</sup> / AWG 24-16
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

### Temperature range

Operating	
Temperature - Operating °C	-10 °C - 50 °C
Temperature - Operating °F	14 °F - 122 °F
Storage	
Temperature - Storage °C	-25 °C - 70 °C
Temperature - Storage °F	-13 °F - 158 °F



**Technical Data****Power loss**

Power loss (typical)	1.2 W
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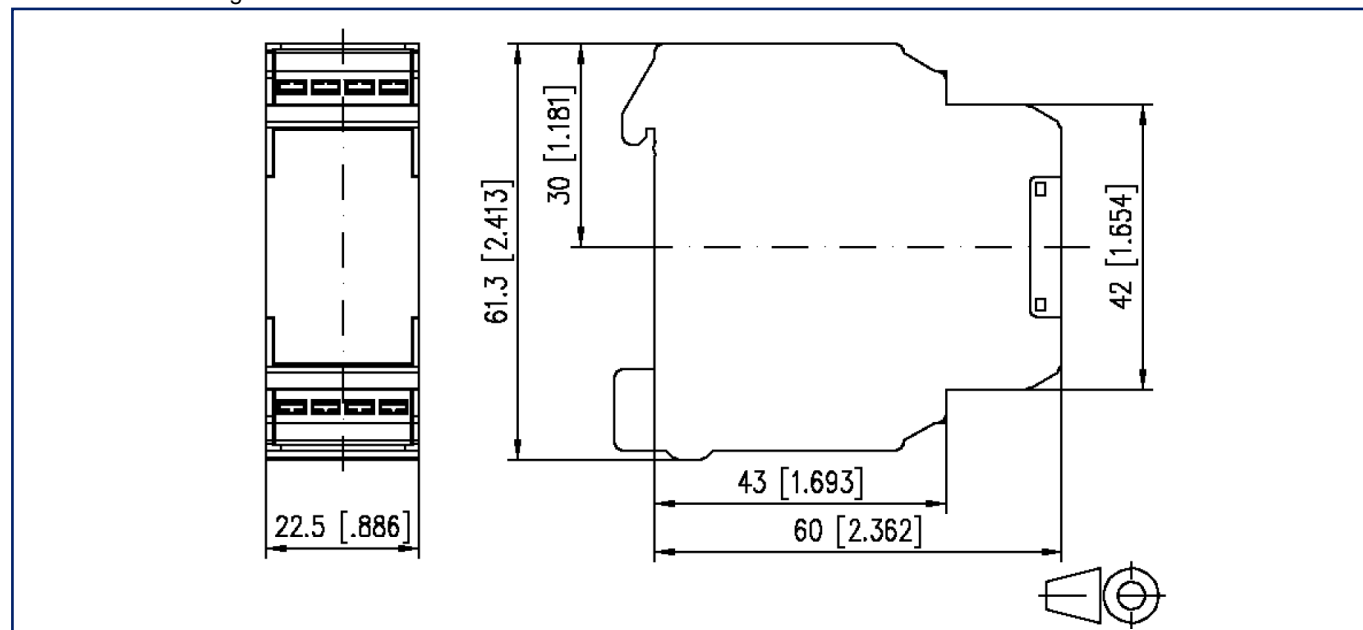
**Classifications**

ETIM 6.0	EC000310
ETIM 7.0	EC001437
ETIM 8.0	EC001437
ETIM 9.0	EC001437

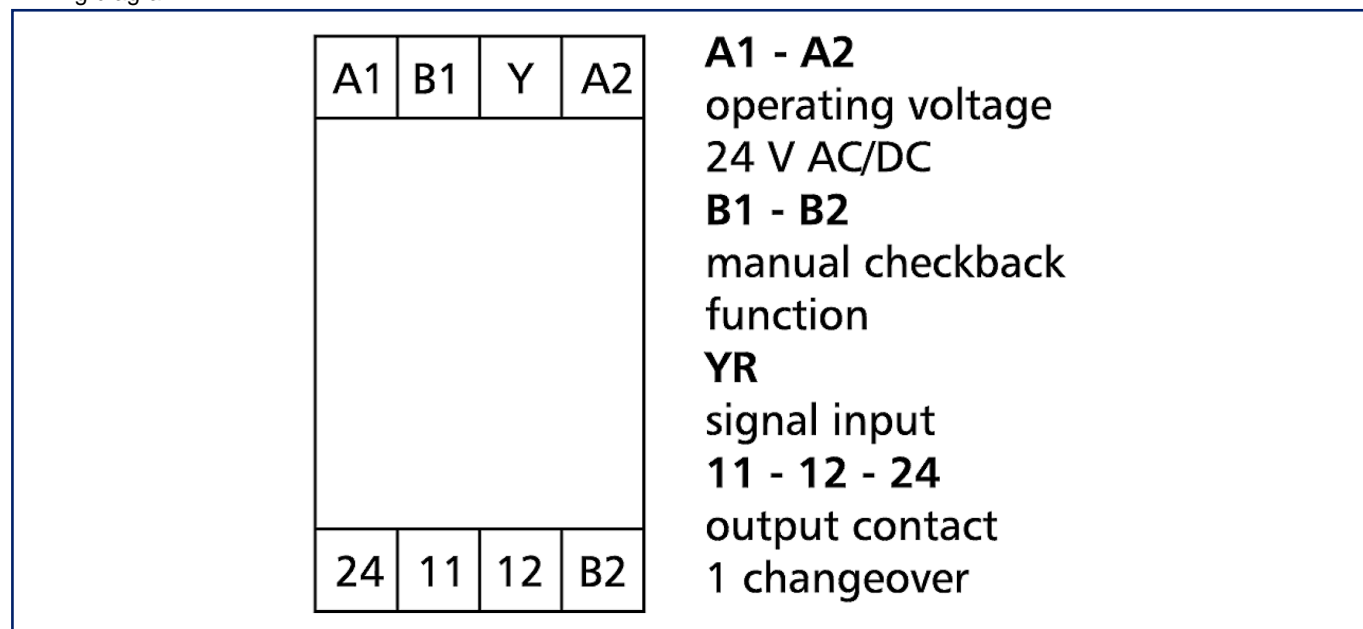


### Illustrations

Dimensional drawing

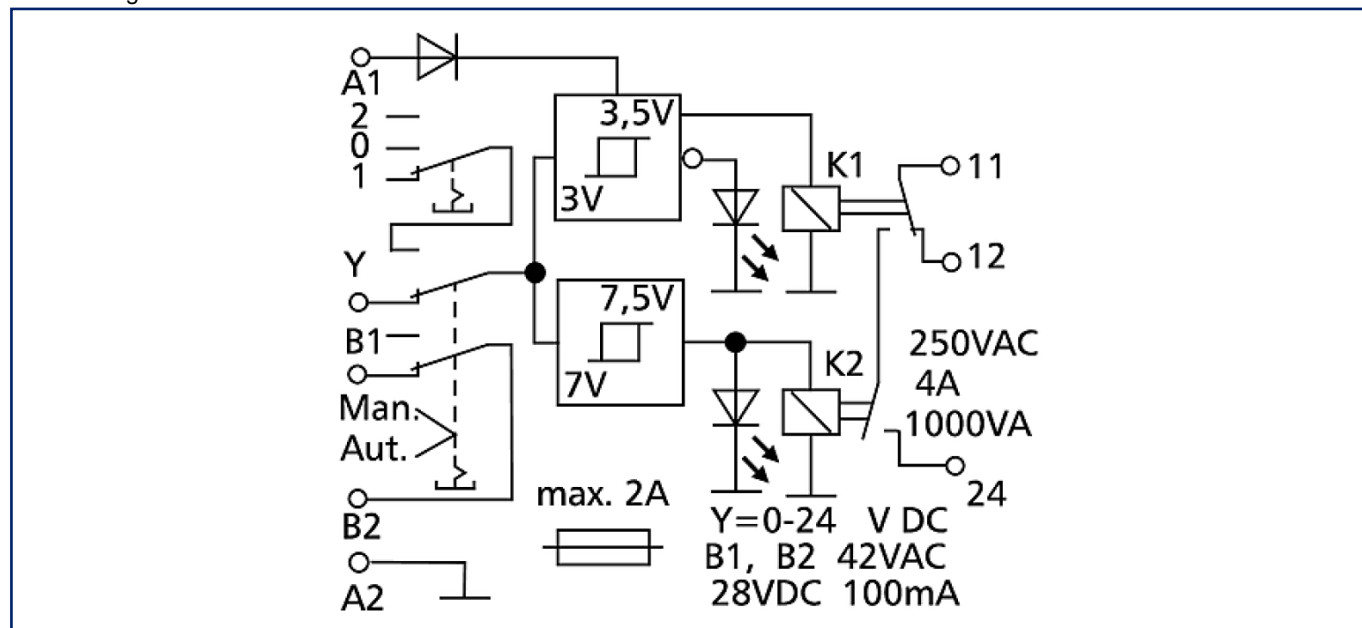


Wiring diagram



## Illustrations

Circuit diagram



Function diagram

