

## MAK VOLTAGE COMPARATOR MODULE

IN: 2 × 30VDC / OUT: 24V / 0,7A

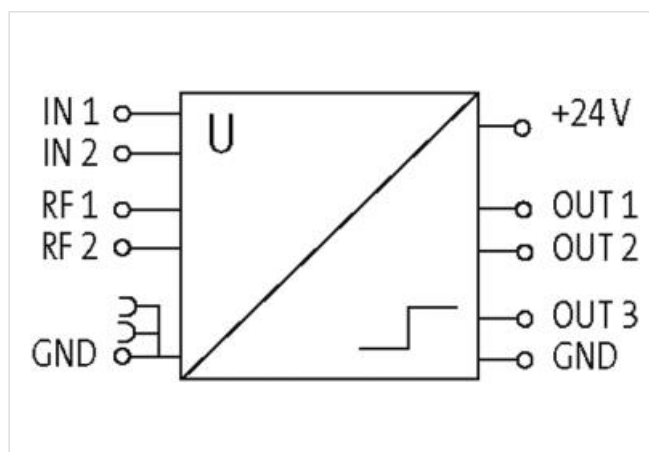
2 × 0...30 V DC (IN 1, IN 2)

Spring clamp terminals  
with bridge system

The DC- or AC-voltage comparator serves for evaluating analog voltages, generated by pressure, temperature or other sensors. The analog input values are compared to internal or external reference voltages to over or underflow. Outputs will be switched, dependent on defined limits. Features: - 2 separate measuring channels (no galvanic separation), (only by comparator service) - 2 operating modes (comparator/window discriminator) – adjustable reference voltage (internal/external) per channel – adjustable output (inverted/not inverted) per channel, (only by comparator service) – compact design (12.4 mm) - higher switched current at output - output state display through LED – Easy configuration of the module via DIP switch

### [Link to Product](#)

#### Illustration



Product may differ from Image



#### Commercial data

ECLASS-6.0

27210990

The information in this Product-PDF has been compiled with the utmost care.  
Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-15

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|                       |               |
|-----------------------|---------------|
| ECLASS-6.1            | 27261610      |
| ECLASS-7.0            | 27261610      |
| ECLASS-8.0            | 27261610      |
| ECLASS-9.0            | 27261610      |
| ECLASS-10.1           | 27261610      |
| ECLASS-11.1           | 27261610      |
| ECLASS-12.0           | 27261610      |
| ETIM-5.0              | EC002477      |
| customs tariff number | 85437090      |
| GTIN                  | 4048879022538 |
| Packaging unit        | 1             |

**Electrical data | Supply**

|                           |       |
|---------------------------|-------|
| Operating voltage DC min. | 20 V  |
| Operating voltage DC max. | 30 V  |
| Operating current max.    | 0,8 A |
| Open-circuit current      | 30 mA |

**Electrical data | Input**

|   |        |
|---|--------|
| Input voltage DC min.                             | 0 V    |
| Input voltage DC max.                             | 30 V   |
| Input resistance measuring input per channel min. | 100 kΩ |
| Input resistance reference input per channel min. | 100 kΩ |
| Hysteresis measuring input per channel            | 0,5 %  |
| Hysteresis measuring input per channel max.       | 150 mV |
| Time constant measuring input per channel         | 10 ms  |

**Electrical data | Output**

|                                 |       |
|---------------------------------|-------|
| Number of transistor outputs    | 3     |
| Output current per channel max. | 0,7 A |

**Device protection | Electrical**

|                         |     |
|-------------------------|-----|
| Short-circuit protected | yes |
| Pulse switching         | yes |

**Mechanical data | Mounting data**

|                            |                           |
|----------------------------|---------------------------|
| Mounting method            | geschnappt                |
| Suitable for mounting type | mounting rail, (EN 60715) |
| Height                     | 80 mm                     |
| Width                      | 12,4 mm                   |
| Depth                      | 70 mm                     |

**Environmental characteristics | Climatic**

|                            |       |
|----------------------------|-------|
| Operating temperature min. | 0 °C  |
| Operating temperature max. | 50 °C |

**Connection type 5**

|                          |                           |
|--------------------------|---------------------------|
| Connection               | Spring clamp terminals FK |
| Family construction form | terminal                  |
| Gender                   | female                    |
| Color contact carrier    | green                     |
| No. of poles             | 2                         |
| PIN 1                    | 0 V                       |
| PIN 2                    | 0 V                       |
| Connection               | Spring clamp terminals FK |
| Family construction form | terminal                  |

|                          |                           |
|--------------------------|---------------------------|
| Gender                   | female                    |
| Color contact carrier    | green                     |
| No. of poles             | 2                         |
| PIN 1                    | RF 1                      |
| PIN 2                    | RF 2                      |
| Connection               | Spring clamp terminals FK |
| Family construction form | terminal                  |
| Gender                   | female                    |
| Color contact carrier    | green                     |
| No. of poles             | 2                         |
| PIN 1                    | In 1                      |
| PIN 2                    | In 2                      |
| Connection               | Spring clamp terminals FK |
| Family construction form | terminal                  |
| Gender                   | female                    |
| Color contact carrier    | green                     |
| No. of poles             | 2                         |
| PIN 1                    | OT 3                      |
| PIN 2                    | OT 2                      |
| Connection               | Spring clamp terminals FK |
| Family construction form | terminal                  |
| Gender                   | female                    |
| Color contact carrier    | green                     |
| No. of poles             | 2                         |
| PIN 1                    | OT 1                      |
| PIN 2                    | + 24 V DC                 |