

Current and Voltage Controls DC Under Voltage Control Type EUG

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- DC low voltage monitoring of batteries
- Measures if power supply is above set level
- Measures on own power supply
- Measuring range: 8 - 28 VDC
- Adjustable hysteresis: 5 - 50%
- Output: 5 A, SPDT
- For mounting on DIN-rail in accordance with DIN/EN 50 022
- 22.5 mm housing
- LED-indication for relay and power supply ON

Product Description

The EUG is a voltage monitoring relay that measures on its own power supply. The measuring range is 8-28 VDC. It has separate potentiometer

for setpoint and hysteresis. Application can be monitoring of back-up batteries, batteries on diesel-generator sets and the like.

Ordering Key

EUG C 724

Housing _____
 Function _____
 Type _____
 Output _____
 Power supply _____

Type Selection

Mounting

For DIN-rail

Output

SPDT

Measuring range

8 - 28 V

Supply: 12 - 24 VDC

EUG C 724

Input Specifications

Input

Through terminals A1 & A2

Measures on own power supply

Measuring range

8 - 28 VDC

Supply Specifications

Power supply

Rated operational voltage
 Through pins A1 & A2 724
 Dielectric voltage
 Rated impulse withstand voltage

Overvoltage cat. III (IEC 60664) (IEC 60038)
 12 - 24 VDC, -35/+25%
 None

1 kV (1.2/50 μ s)

Rated operational power

12 VDC: 0.7 W
 24 VDC: 2.5 W

Output Specifications

Output

SPDT relay

Rated insulation voltage

250 VAC (contact/elect.)

Contact ratings (AgCdO)

μ (micro gap)
 Resistive loads AC 1 5 A, 250 VAC
 DC 1 5 A, 24 VDC
 Small inductive loads AC 15 2 A, 250 VAC
 DC 13 3 A, 24 VDC

Mechanical life

$\geq 40 \times 10^6$ operations

Electrical life

$\geq 10^5$ operations (at max. load)

Operating frequency

≤ 7200 operations/h

Dielectric strength

Dielectric voltage 2 kVAC (rms)
 Rated impulse withstand volt. 4 kV (1.2/50 μ s)

General Specifications

Power ON delay

< 200 ms

Reaction time

$\tau < 5$ ms
 worst case reaction time may be up to $5 \times \tau$.

Accuracy

Setpoint $\pm 10\%$ of setting
 Hysteresis $\pm 10\%$
 Temperature drift $\leq 0.2\%/^{\circ}\text{C}$ ($\leq 0.11\%/^{\circ}\text{F}$)

Indication for

Power supply ON LED, green
 Output ON LED, yellow

Environment

Degree of protection IP 20
 Pollution degree 3
 Operating temperature -20° to $+50^{\circ}\text{C}$ (-4° to $+122^{\circ}\text{F}$)
 Storage temperature -50° to $+85^{\circ}\text{C}$ (-58° to $+185^{\circ}\text{F}$)

Weight

125 g

Screw terminals

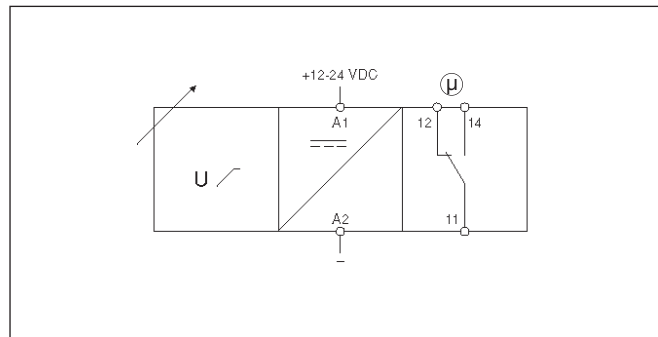
Tightening torque Max. 0.5 Nm acc. to IEC 60947



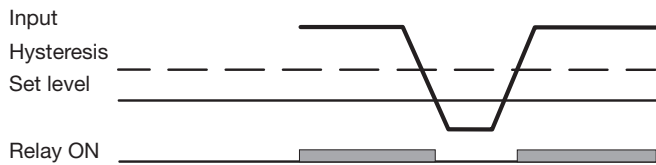
Mode of Operation

The output is energized when the measured voltage is rising to a value that is above setpoint value plus hysteresis, and is deenergized when the measured voltage drops below the setpoint value.

Wiring Diagram



Operation Diagram



Level Setting

Upper knob: Hysteresis setting on absolute scale (5-50%) of level.

Lower knob: Level setting on absolute scale (8-28 VDC).