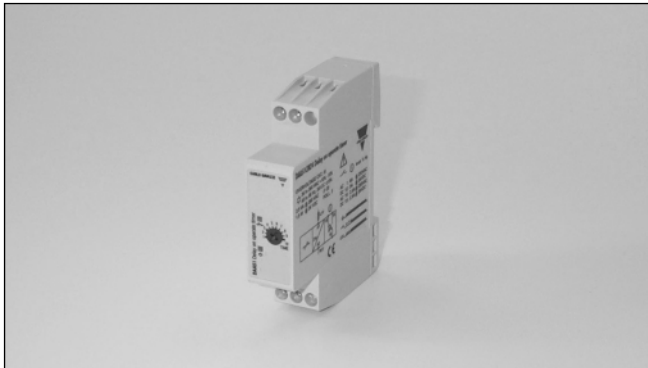


Monitoring Relays DC Under Voltage Type DUA52



- DC undervoltage monitoring relay
- Measuring if power supply is below the set level
- Measures on own power supply
- Measuring ranges: 8 - 28 V DC and 38 - 58 V DC
- Adjustable hysteresis: 4 to 50%
- Output: 5 A SPDT NE relay
- For mounting on DIN-rail in accordance with DIN/EN 50 022
- 17.5 mm housing (DIN 43880)
- LED indication for relay and power supply ON

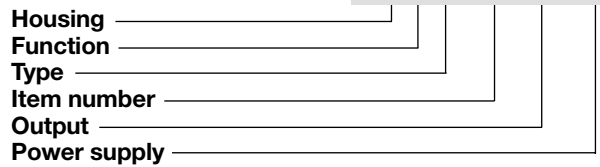
Product Description

DUA52 is a voltage monitoring relay that measure its own power supply. The measuring ranges are 8-28 VDC and 38-58 VDC. It has separate potentiometers for setpo-

int and hysteresis. Typical applications are monitoring of backup batteries, batteries on diesel generator sets and the like.

Ordering Key

DUA 52 C 724



Type Selection

Mounting	Output	Measuring range: 8 to 28V	Measuring range: 38 to 58V
DIN-rail	SPDT	DUA 52 C 724	DUA 52 C 748

Input Specifications

Input	Level
Own power supply	A1, A2
748	48V DC
724	12 to 24V DC
Measuring ranges	Level
724	8 to 28 V
748	38 to 58 V

Output Specifications

Output	SPDT relay
Rated insulation voltage	250 VAC
Contact ratings (AgSnO₂)	μ
Resistive loads	5 A @ 250 VAC
AC 1	5 A @ 24 VDC
DC 12	2.5 A @ 250 VAC
Small inductive loads	2.5 A @ 24 VDC
AC 15	
DC 13	
Mechanical life	≥ 30 x 10 ⁶ operations
Electrical life	≥ 10 ⁵ operations (at 8 A, 250 V, cos φ = 1)
Operating frequency	≤ 7200 operations/h
Dielectric strength	
Dielectric voltage	2 kVAC (rms)
Rated impulse withstand volt.	4 kV (1.2/50 μs)



Supply Specifications

Power supply Rated operational voltage through terminals: A1 and A2	724 748	Overvoltage cat. III (IEC 60664, IEC 60038) 8 to 28 VDC 38 to 58 VDC None
Dielectric voltage Supply to output		2 kV
Rated operational power		1.5 W

General Specifications

Power ON delay	< 200 ms
Reaction time Alarm ON delay Alarm OFF delay	(input signal variation from -20% to +20% or from +20% to -20% of set value) < 200 ms < 200 ms
Accuracy Temperature drift Alarm delay Repeatability	(15 min warm-up time) ± 1000 ppm/°C ± 10% on set value ± 50 ms ± 0.5% on full-scale
Indication for Power supply ON Output relay ON	LED, green LED, yellow
Environment Degree of protection Pollution degree Operating temperature Storage temperature	IP 20 3 -20 to 60°C, R.H. < 95% -30 to 80°C, R.H. < 95%
Housing dimensions DIN-rail version	17.5 x 81.5 x 67 mm
Weight	Approx. 75 g
Screw terminals Tightening torque	Max. 0.5 Nm acc. to IEC 60947
CE Marking	Yes

Range and Level Setting

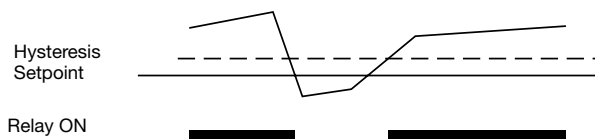
Selection of level:	Lower knob: Setting of hysteresis on relative scale
Centre knob: Setting of level on absolute scale.	

Mode of Operation

DUA52 monitors the DC value of its own power supply. is rising above the setpoint plus hysteresis, and is deenergized when the measured voltage drops below the setpoint value.

The output is energized when the measured voltage

Operation Diagram



Wiring Diagram

