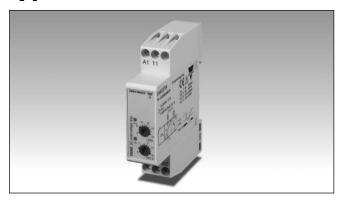
Monitoring Relays DC Under Voltage Type DUA52





- DC undervoltage monitoring relay
- Measuring if power supply is below the set level
- Measures its 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 setpoint

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

Ordering Key	DUA 52 C 724
Housing —	
Function —	
Type —	
Item number ————	
Output ——————————————————————————————————	

Type Selection

Mounting	Output	Measuring range	Supply: 12/24 VDC	Supply: 48 VDC
DIN-rail DIN-rail	SPDT SPDT	8 to 28 VDC 38 to 58 VDC	DUA 52 C 724	DUA 52 C 748

Input Specifications

inpor specifications		
Input (voltage level)	Terminals A1, A2 Measures its own power supply	
Measuring ranges		
Direct 48 VDC 12 to 24 VDC	Level 38 to 58 VDC 8 to 28 VDC	

Output Specifications

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

Supply Specifications

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



General Specifications

Power ON delay	< 200 ms
Reaction time	(input signal variation from -20% to +20% or from +20% to -20% of set value)
Alarm ON delay Alarm OFF delay	< 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%

17.5 x 81 x 67.2 mm
PA66 or Noryl
Approx. 75 g
Max. 0.5 Nm
acc. to IEC 60947
EN 60255-6
UL, CSA
L.V. Directive 2006/95/EC
EMC Directive 2004/108/EC
According to EN 60255-26
According to EN 61000-6-2
According to EN 60255-26
According to EN 61000-6-3

Mode of Operation

DUA52 monitors the DC value of its own power supply.

The output is energized when the measured voltage

is rising above the setpoint plus hysteresis, and is deenergized when the measured voltage drops below the setpoint value.

Range and Level Setting

Selection of level:

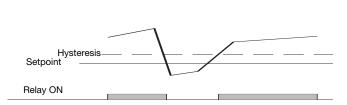
Lower knob:

Centre knob:

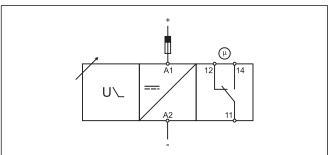
Setting of level on absolute scale.

Setting of hysteresis on relative scale

Operation Diagram



Wiring Diagram



Dimensions

