#### **CARLO GAVAZZI**

## 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
Housing — Function — Item number — Output — Item number —	
Dower cumply	

#### **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		
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**

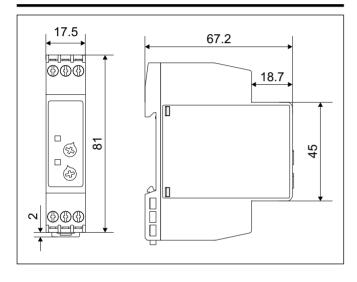
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n



### **Supply Specifications**

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

#### **Dimensions**



#### **General Specifications**

Power ON delay	< 200 ms
Reaction time  Alarm ON delay	(input signal variation from -20% to +20% or from +20% to -20% of set value) < 200 ms
Alarm OFF delay	< 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
Approvals	UL, CSA
CE Marking	Yes

# Range and Level Setting

Selection of level:

Centre knob:

Setting of level on absolute scale.

Lower knob:

Setting of hysteresis on relative scale

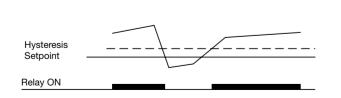
# **Mode of Operation**

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.

# **Operation Diagram**



### **Wiring Diagram**

