

DUB72D724EX



DC Double Under Voltage Level monitoring relay



Benefits

- **Under + Under Voltage setting.** The user can set a double under voltage threshold, by two independent dials.
- **20A + 3A relay outputs.** The two relay outputs, each one associated to one of the set thresholds, can be used to drive different types of loads: the 3A can be used to send a signal to a PLC while the 20A, thanks to its high capacity, could directly drive the load.
- **Bicolour Alarm LED indication.** A green/red LED provides a visual indication of the alarm status. The number of RED blinks indicates the triggered alarm type.
- **Hazardous location installation.** Thanks to the Class I div. 2 compliance, according to ISA12.12.1 Norm, the DUB72 is suitable for the installation in zone 2 of potentially explosive environments.
- **Tropicalized PCB.** The PCB tropicalization increases the operation reliability also in humid and dusty environments.

Description

DUB72 is a DC double under-voltage-thresholds monitoring relay, with two independent relays, one for each of the 2 thresholds, measuring the level of its power supply.

One of the thresholds, the one associated with the lower rating relay, can be used as a pre-alarm signal; the other one is associated with a high-power 20A-rated relay which can be used to drive the load directly.

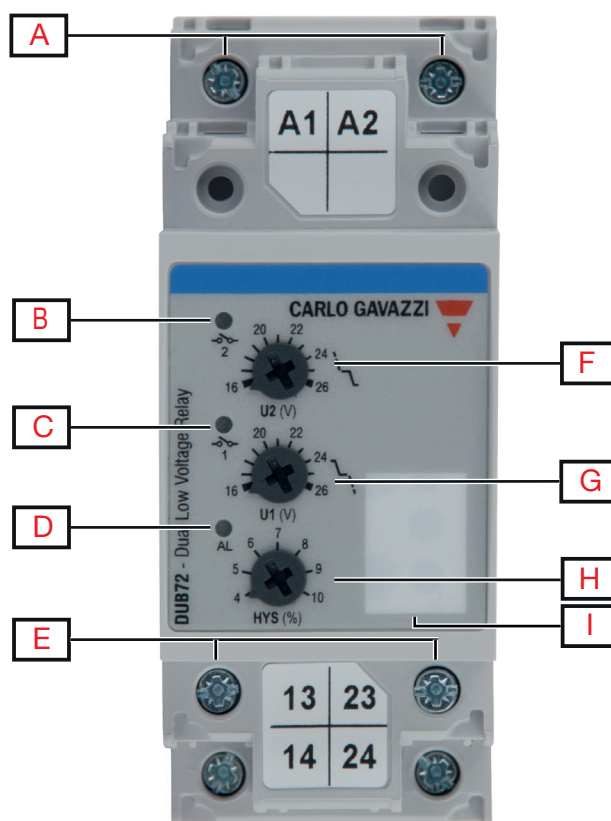
This device is designed according to the Class I Div. 2 classification of the ISA12.12.1 hazardous location installation norm.

It features a low-profile DIN housing suitable for installation into electric distribution panels as well as industrial cabinets.

Applications

As the DUB72 complies with the hazardous location installation norm, it is hence suitable for 24V-battery-voltage level monitoring, or any other DC voltage within the operating range, in any environment including Zone 2 of potentially explosive environments. It is suitable for applications where it is necessary to monitor the battery charge level in Oil & Gas installations or grain bins.

Structure



Element	Component	Function
A	Power supply terminals	A1 and A2 supply and measuring terminals
B	LED "2"	ON when relay 2 (Output 2) energized
C	LED "1"	ON when relay 1 (Output 1) Energized
D	Alarm LED	Green: OK (Power ON, no alarm present)
		1 RED Flash: U1 Undervoltage
		2 RED Flashes: U2 Undervoltage
E	Output terminals	Output relay contacts terminals
	13-14	Output 1
	23-24	Output 2
F	U2 Dial	Undervoltage 2 setting dial. This is associated to the Output 2, should be set to a lower voltage level than U1 and use it as an alarm.
G	U1 Dial	Undervoltage 1 setting dial. This is associated to the Output 1, should be set to a higher voltage level than U2 and use it as a pre-alarm notification.
H	HYS Dial	Hysteresis level can be set by means of this dial between 4% to 10% of the selected voltage value
I	Identification area	Area for device identification marking