

DPADCV 0-10V

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Modules in the DPA SERIES are used for monitoring limit values. They can be configured for a wide variety of industrial signals and feature two relay contacts for the alarm function on the output side.

A potentiometer on the front side is used to custom adjust the setpoints and deadbands.

The deadband reduces chatter from the alarm relay during switching operations.

The reset point of the relay contact is individually adjusted, in this case away from the hysteresis (setpoint).

In order to generate an alarm in the event of a power outage, you should select the "energised" operational status for one or both of the output relays.

A high/low-trip switching behaviour can also be set independently for each channel.

The following analogue input signals can be processed with the current DPA SERIES: temperature (thermocouple and PT100 temperature sensors), AC/DC currents and voltages, measuring wire and potentiometer positions, resistances, differential currents and differential resistances.

The monitoring components are enclosed in a rugged rail-mountable metal housing and feature complete isolation at 2 kV.

General ordering data

Type	DPADCV 0-10V
Order No.	7940011718
Version	Signal converter/disconnector, 0...10 V or 1...5 V
GTIN (EAN)	4032248564354
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	46 mm	Height	97 mm
Depth	120 mm	Weight	424 g
Net weight	424 g		

Temperatures

Humidity	0...90 % (no condensation)	Operating temperature	0 °C...+60 °C
Storage temperature	-25 °C...+70 °C		

Input

Supply voltage	24 V DC \pm 10 %	Type	DC voltage [$>$ 500 mV]
Input resistance	1 M Ω (0...10 V) or 500 k Ω (1...5 V)	Input signal	0...10 V or 1...5 V

Settings

Fine adjustment	Potentiometer, 20 turns	Hysteresis	1...25 % of max. input value
Switching thresholds	0...100 % of max. input value		

General data

Input/Output	Voltage input	Long-term drift	0.1 % / 10.000 h
Mounting rail	TS 35, TS 32	Power consumption	3 W @ 24 V DC
Repeat accuracy	\pm 0.05 % of signal range	Step response time	typ. 5 ms
Supply voltage	24 V DC \pm 10 %	Temperature coefficient	$<$ 0.04 % / °C
Type of connection	Screw connection		

Insulation coordination

EMC standards	DIN EN 61326	Impulse withstand voltage	4 kV (1.2/50 μ s)
Insulation voltage	2 kV input / output / power supply	Standards	DIN EN 50178

Classifications

ETIM 3.0	EC001774	UNSPSC	30-21-18-01
eClass 6.2	27-21-09-90	eClass 7.1	27-21-09-90

Product information

Descriptive text technical data	PE connection direct on enclosure
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Approvals

Approvals



ROHS	Conform
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Data sheet

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Technical data

Downloads

Declaration of Conformity [K_460_07_11.pdf](#)

Data sheet

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Drawings

Electric symbol

