Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

DPADCV 0-10V

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).

Creation date December 20, 2013 10:27:38 PM CET

DPADCV 0-10V

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 ± 10 %	Type	DC voltage [> 500 mV]
Input resistance	1 MΩ (0…10 V) or 500 kΩ (1…5 V)	Input signal	
			0…10 V or 1…5 V

Settings

Fine adjustment		Hysteresis	1…25 % of max. input value
	Potentiometer, 20 turns		
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	± 0.05 % of signal range	Step response time	typ. 5 ms
Supply voltage	24 V DC ± 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 µs)
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

Approvals

Approvals	

ROHS	Conform

Weidmüller ⋝⋝

DPADCV 0-10V

Technical data

Downloads

Declaration of Conformity	K_460_07_11.pdf

DPADCV 0-10V

Drawings

Electric symbol

Creation date December 20, 2013 10:27:39 PM CET

Catalogue status / We reserve the right to make technical changes.

4