



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!



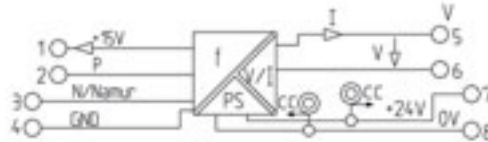
## Contact us

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#### General ordering data

Order No.	8581180000
Part designation	WAS4 PRO Freq
Version	Frequency signal converter, 0...10 V , 0(4)...20 mA , Screw connection
EAN	4032248234486
Qty.	1 pc(s).

#### Input

Max. voltage	NPN Input: + 30 V / PNP Input: $\pm$ 30 V
Rated input level	Threshold/hysteresis: Namur: approx. 1.7 mA / approx. 0.2 mA; NPN: approx. 6.5 V / approx. 0.2 V; PNP: approx. 6,7 V / approx. 0.5 V
Input frequency	0...100 kHz
Sensor	2-, 3-wire PNP/NPN, Namur initiator, push-pull step
Number of inputs	1

#### Output

Output voltage	0...10 V
Output current	0(4)...20 mA
Load resistance, voltage	$\geq$ 1 k $\Omega$
Load resistance, current	$\leq$ 600 $\Omega$
Accuracy	0.2% of output range
Offset voltage	max. 0.05 V
Offset current	Max. 100 $\mu$ A
Step response time	360 ms + 2 times the period time of input frequency
Status indicator	Green LED
Temperature coefficient	Max. 200 ppm/K of output range
Number of outputs	1

#### General data

Function	Frequency signal converter
Input/Output	Configurable

#### General data

Galvanic isolation	3-way isolator
Type of connection	Screw connection
Mounting rail	TS 35
Weight	100 g
Power consumption	Max. 1.6 W at I = 20 mA
Current-carrying capacity of cross-connect.	≤ 2 A
Voltage supply	24 V DC ± 25 %
Default setting	0...10kHz / 4...20mA
Ambient temperature (operational)	0 °C...+55 °C
Storage temperature	-20 °C...+85 °C

#### Insulation coordination

Standards	EN 50178 (secure separation)
EMC standards	EN 55011, EN 61000-6 /-2, EN 61326
Insulation voltage input, output	4 kV / 5 s
Insulation voltage input or output/rail	4 kV / 1 min.
Insulation voltage input or output/supply	4 kV / 5 s
Clearance & creepage distances	≥ 5.5 mm
Impulse withstand voltage	6 kV
Pollution severity	2
Overvoltage category	III
Rated voltage	300 V

#### Dimensions

Clamping range, max.	2.5 mm <sup>2</sup>
Clamping range, min.	0.5 mm <sup>2</sup>
Clamping range, nom.	2.5 mm <sup>2</sup>
Length	92.4 mm
Height	112.4 mm
Width	12.5 mm

#### Approvals

Approvals institutes



#### Classifications

eClass 4.1	27-21-09-04
eClass 5.0	27-21-09-04
eClass 5.1	27-21-01-20

#### Similar products

Order No.	Part designation	Version
8581190000	WAZ4 PRO Freq	Frequency signal converter, 0...10 V , 0(4)...20 mA , Tension clamp connection