



#### 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