

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold

Germany

Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com



Do not use product for new











When used for industrial monitoring applications, sensors can record ambience conditions. Sensor signals are used within the process to continually track changes to the area being monitored. Both digital and analogue signals can occur.

Normally an electrical voltage or current value is produced which corresponds proportionally to the physical variables that are being monitored Analogue signal processing is required when automation processes have to constantly maintain or reach defined conditions. This is particularly significant for process automation applications. Standardised electrical signals are typically used for process engineering. Analogue standardised currents / voltage 0(4)...20 mA/ 0...10 V have established themselves as

physical measurement and control variables. Weidmüller meets the ever increasing challenges of automation and offers a product portfolio tailored to the requirements of handling sensor signals in analogue signal processing

The analogue signal processing products can be used universally in combination with other Weidmüller products and in combination among each other. Their electrical and mechanical design is such that they require only minimal wiring efforts.

Housing types and wire-connection methods matched to the respective application facilitate the universal use in process and industrial automation applications.

The product line includes the following functions:

- Isolating transformers, supply isolators and signal converters for DC standard signals
- Temperature measuring transducers for resistance thermometers and thermocouples,

Gérelle Beneany ettes,

- potentiometer-measuring-transducers,
- ្សាស្រ្តាdge measuring វ្រុងព្រះស្រ្តស្រុស្ត្រ (នូវគ្រា់n gauges)
- Orticipyamplifiers and modules for monitoring electrical

Versing non-electrical PTPO sets through the ser, Screw connection

GTMDF/19A converters 4032248 813094

Otydisplaysdisplays

1 pc(s).

• calibration devices

The products mentioned are available as pure signal converters / isolation transducers, 2-way/3-way isolators, supply isolators, passive isolators or as trip amplifiers.



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Technical data

Dimensions and weights

Length	92.4 mm	Length (inches)	3.638 inch
Width	17.5 mm	Width (inches)	0.689 inch
Depth	112.4 mm	Depth (inches)	4.425 inch
Weight	100 g	Net weight	103.3 g

Temperatures

Operating temperature, max.	55 °C	Operating temperature, min.	O °C
Storage temperature, max.	85 °C	Storage temperature, min.	-20 °C
Operating temperature	0 °C55 °C	Storage temperature	-20 °C85 °C

Probability of failure

MTTF	267 Years

Input

Number of inputs		Sensor	Ni 1000/2-/3-/4-wire,
•			Potentiometer: min.
			$0-1k\Omega$, max. $0-100k\Omega$,
			PT1000/2-/3-/4-wire,
	1		Resistance: 0-4.5kΩ
Line resistance in measuring circuit		Temperature input range	Configurable, PT1000:
_	$50~\Omega$ for 3- and 4-		-200°C850 °C,
	conductor		NI1000: -60°C+250 °C

Output

Number of outputs	1	Output voltage, note	010 V
Output current	020 mA, 420 mA	Wire break detection	LED flashing (output value: > 20 mA, > 10 V)
Fine adjustment	± 12.5 % of FSR; potentiometer: ± 12.5 % ± 25 %	load impedance voltage	≥ 1 kΩ
load impedance current	≤ 600 Ω	Offset voltage	max. 0.05 V
Offset current	max. 100 μA	Status indicator	Module active: LED on/ wire breakage: LED flashing/ Error: LED off

General data

Accuracy	< 0.3 % of measured value	Configuration	DIP switch, Potentiometer
Current-carrying capacity of cross-		Galvanic isolation	
connect.	≤ 2 A		3-way isolator
Input/Output	configurable	Linearity	Yes
Mounting rail		Power consumption	830880980mW at
	TS 35		$I_{OUT} = 20 \text{ mA}$
Step response time	Fast/slow:2-/3-/4- conductor: 1.2s/2.3s;	Supply voltage	
	potentiometer: 0.5s/1.2s		24 V DC \pm 20 %
Temperature coefficient	Measuring range ≥ 200K and resistant measurement: <=		
	200ppm/K of measuring range; 100< = measuring range < 200K: < = 250ppm vo		



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Insulation coordination

Clearance & creepage distances	≥ 3 mm	EMC standards	EN 55011, EN 61000-6
Galvanic isolation	3-way isolator	Impulse withstand voltage	4 kV
Insulation voltage	2 kV _{eff} / 5 s	Insulation voltage input or output/rail	4 kV _{eff} / 1 min.
Insulation voltage input or output/supply2 kV _{eff} / 5 s		Pollution severity	2
Rated voltage		Standards	DIN EN 50178, DIN EN
	300 V		61000-4-2
Surge voltage category	III		

Connection data

Type of connection	Screw connection	Stripping length, rated connection	7 mm
Tightening torque, min.	0.4 Nm	Tightening torque, max.	0.5 Nm
Clamping range, rated connection	2.5 mm ²	Clamping range, min.	0.5 mm ²
Clamping range, max.	2.5 mm ²		

Classifications

ETIM 3.0	EC001774	ETIM 4.0	EC001774
ETIM 5.0	EC001774	ETIM 6.0	EC002919
UNSPSC	30-21-18-01	eClass 5.1	27-21-01-07
eClass 6.2	27-21-01-07	eClass 7.1	27-21-01-07
eClass 8.1	27-21-01-07	eClass 9.0	27-21-01-07
eClass 9.1	27-21-01-29		

Product information

Product information	This product will soon be replaced by a new product.
	Please do not use with new systems. Please contact our technical support.
Descriptive text accessories	Cross-connector for power supplies and markers – refer to Accessories

Approvals

Approvals



ROHS	Conform

Downloads

Approval/Certificate/Document of	
Conformity	Declaration of Conformity
Brochure/Catalogue	<u>CAT 4.1 ELECTR 16/17 EN</u>
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet



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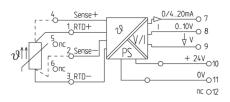
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Drawings

Electric symbol

Similar to illustration







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Accessories

Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with laser printer, PrintJet ADVANCED, plotter or MC-Mobilo is possible.

- · Can be fitted in strips or individually
- Markers in proven MultiCard format

General ordering data

Туре	Order No.	Version	GTIN (EAN)	Qty.
WS 10/5 M	C <u>1635000000</u>	WS, Terminal marker, 10 x	400819026194	8720 pc(s).
NE WS		5 mm, Pitch in mm (P): 5.00		
		Weidmueller, Allen-Bradley,		
		White		

ZQV 2.5N



Spring connection with tension clamp Technology

Tension clamp technology is a universal contact system for all common conductor connection types. Its fantastic level of flexibility makes the tension clamp a profitable alternative connection.

General ordering data

Туре	Order No.	Version	GTIN (EAN)	Qty.
ZQV 2.5N/2	<u>1718080000</u>	Accessories, Cross-	400819034930	160 pc(s).
SW		connector, 24 A		
ZQV 2.5N/2	<u>1717900000</u>	Accessories, Z-series, Cross-400819034928860 pc(s).		
RT		connector, 24 A		
ZQV 2.5N/2	<u>1717990000</u>	Accessories, Cross-	400819034929	5 60 pc(s).
BL		connector, 24 A		
ZQV 2.5N/2	<u>1693800000</u>	Z-series, Cross-connector,	400819088362	1 60 pc(s).
GE		24 A		