

2-channel analog input module; Pt100 / RTD; for resistance sensors

Item No.: 750-461



2-channel analog input module; Pt100 / RTD; for resistance sensors

Marking

RoHS ✓
Compliant

Business data

Supplier	WAGO
Item no.	750-461
EAN	4045454486679
Content	1
Order amount	1
Customer item number	

Notes

The input module directly connects to Pt resistance sensors. The connection of 2- or 3-conductor sensors is possible. The module automatically linearizes the entire temperature range. A sensor error is indicated by a red LED. A green LED indicates readiness for operation and error-free communication with the buscoupler. The shield (screen) is directly connected to the DIN rail.

Technical data

Miscellaneous

Color	light gray
Conformity marking	CE
Number of inputs	2
Power supply	via system voltage DC/DC
Isolation	500 V system/supply
Current consumption typ. (internal) [mA]	80 [mA]
Measuring current (typ.)	0.5 mA

Technical data	
Sensor connection	3-wire connection (factory preset) or 2-wire
Temperature range	-200 °C ... + 850 °C (Pt) -60 °C ... +250 °C (Ni)
Resolution (over entire range)	0.1 °C
Conversion time	320 ms (per channel)
Response time (max.) [s]	4 [s]
Measuring error (25°C)	< ± 0.2 % of the full scale value
Temperature coefficient	< ± 0.01 % / K of the full scale value
Bit width	2 x 16 bits data 2 x 8 bits control/status (optional)
Degree of protection	IP20
Connection technology (1)	CAGE CLAMP®
Cross section from (1) [mm²]	0.08 [mm²]
Cross section up to (1) [mm²]	2.5 [mm²]
Cross section from (1) [AWG]	28 [AWG]
Cross section up to (1) [AWG]	14 [AWG]
Stripped length from (1) [mm]	8 [mm]
Stripped length up to (1) [mm]	9 [mm]
Stripped length (1) [in]	0.33 [in]
Fire load [MJ]	1.253 [MJ]
Weight [g]	52.5 [g]
Width [mm]	12 [mm]
Width [in]	0.472 [in]
Height [mm]	64 [mm]
Height [in]	2.52 [in]
Length [mm]	100 [mm]
Length [in]	3.937 [in]
Storage temperature	-25 °C ... +85 °C
Relative air humidity (no condensation) [%]	95 [%]
Type of mounting	DIN 35 rail
Operating temperature	0°C ... +55°C
EMC: marine applications - emission of interference	acc. to Germanischer Lloyd (2003)
EMC: marine applications - immunity to interference	acc. to Germanischer Lloyd (2003)
EMC: CE - emission of interference	acc. to EN 61000-6-4 (2007)
EMC: CE - immunity to interference	acc. to EN 61000-6-2 (2005)
Shock resistance	acc. to IEC 60068-2-27
Vibration resistance	acc. to IEC 60068-2-6

Approbation

Item No.	Registration	Registration no.	Voltage [V]	Current [A]	Cross section [mm², AWG]
750-461	ABS	03-HG374860/3-PDA			
750-461	ABS	10-HN1775034-X			
750-461	BSH	Bescheinigung Nr. 467			
750-461	BV	13453/C0 BV			
750-461	DNV	A-12306			
750-461	GL	26 898 - 05 HH			
750-461	IECEX	IECEX TUN 09.0001 X			
750-461	KR	HMB05880-AC003			
750-461	LR	02/20026 (E4)			
750-461	NK	TA12716M			
750-461	Rina	ELE134212XG			
750-461	UL	E175199 Sec.1			
750-461	UL	E198726 Sec.1			

Accessories

Accessories

Carrier rail

Item no.	Description	Pack. unit (Sub Pack)
210-112	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to en 60715; "Hole width 25 mm	1
210-113	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to en 60715	1
210-114	Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; according to en 60715	1
210-115	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to en 60715; "Hole width 18 mm	1
210-118	Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to en 60715	1
210-196	Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; according to en 60715	1
210-197	Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; according to en 60715	1
210-198	Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to en 60715	1
210-504	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715	1
210-505	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715	1
210-506	Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; ähnlich EN 60715	1
210-508	Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; ähnlich EN 60715	1

Accessories

Marking accessories

Item no.	Description	Pack. unit (Sub Pack)
2009-145	Mini-WSB Inline; plain; 1,700 Mini-WSB markers (5 mm) on roll; stretchable 5 - 5.2 mm	1
248-501	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
248-501/000-002	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
248-501/000-005	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
248-501/000-006	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
248-501/000-007	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
248-501/000-012	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
248-501/000-017	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
248-501/000-023	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
248-501/000-024	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
750-100	Markers for group marker carrier; DIN A4 sheet (160 markers)	1
750-103	750/753 Series marker carrier	50

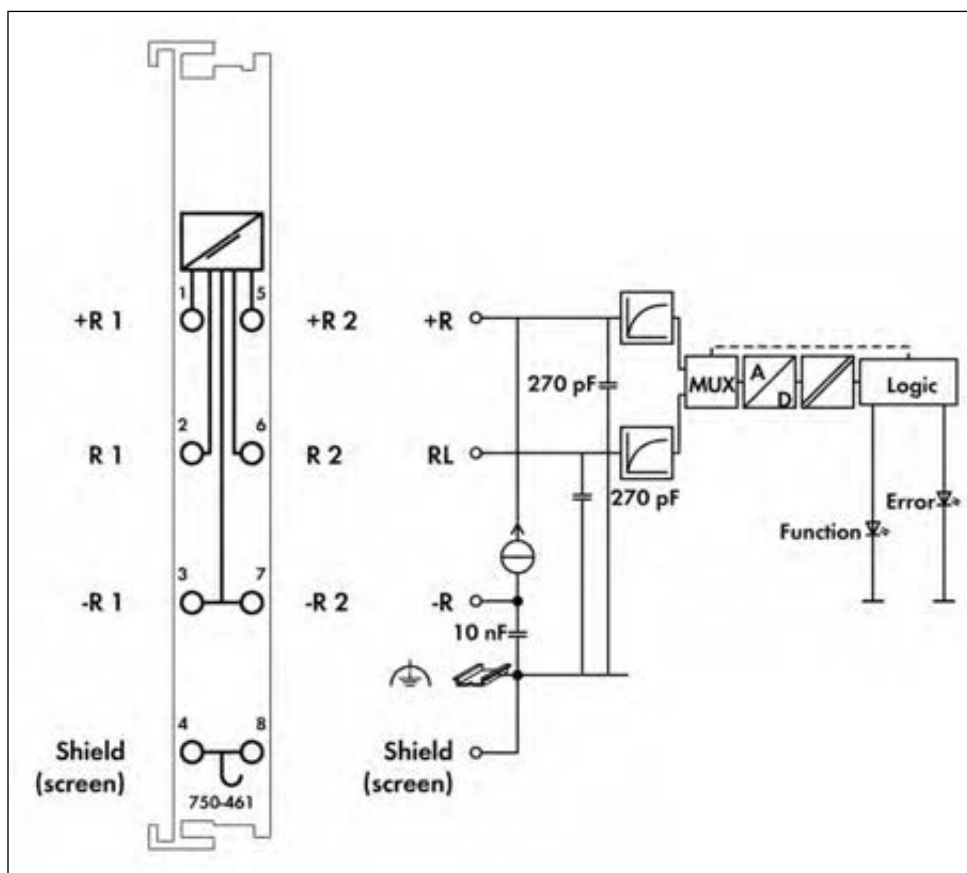
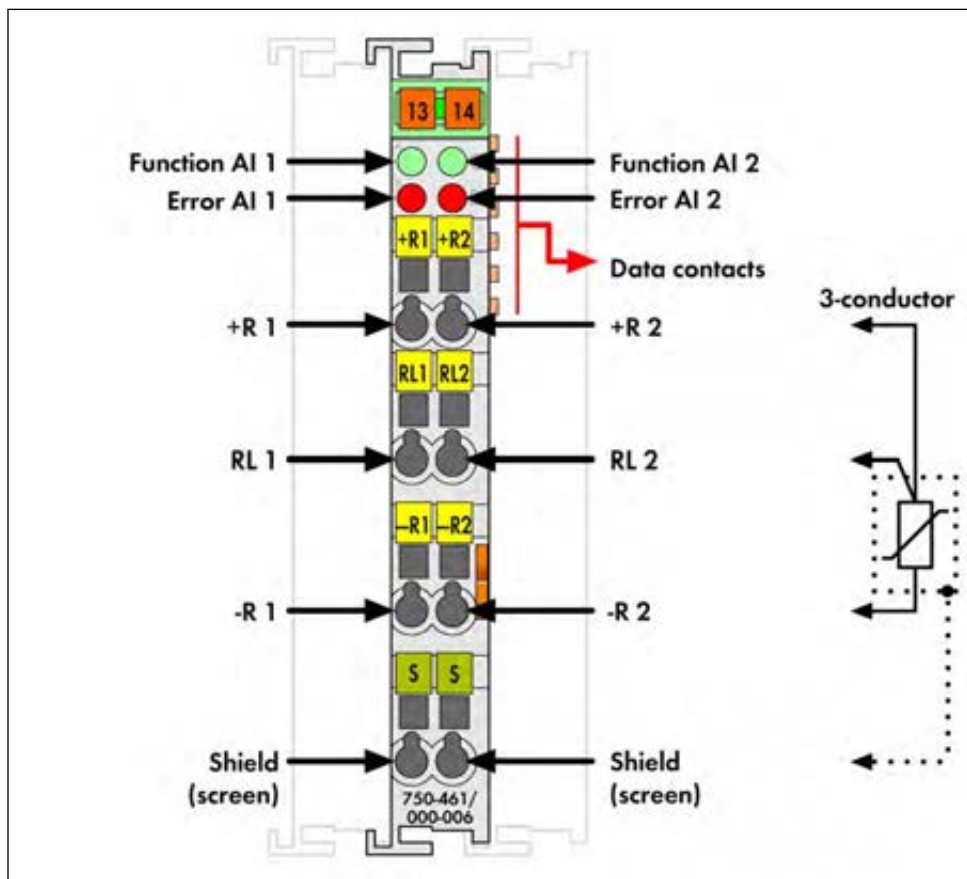
Accessories

General accessory

Item no.	Description	Pack. unit (Sub Pack)
210-719	Operating tool with partially insulated shaft; Type 1, blade (2.5 x 0.4) mm; suitable for 279, 726, 727, 2000, 2001 and 2020 series	1
210-720	Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm; suitable for 260, 261, 262, 264, 270, 280, 281, 290, 775, 776, 777, 769, 780, 781, 869, 870, 880, 2002, 2003, 2004, 2005 and 2022 Series	1
288-812	Power supply unit; with universal mounting carrier; AC 230 V / DC 24 V,; Output voltage indication	1
288-813	Power supply unit; with universal mounting carrier; AC 115 V / DC 24 V,; Output voltage indication	1
790-108	Shield clamping saddle; 11 mm wide; diameter of compatible conductor; up to 8 mm	10
790-116	Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 mm to 16 mm	10
790-124	Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 mm to 24 mm	10
790-140	Shield clamping saddle; 43 mm wide; diameter of compatible conductor; 22 mm to 40 mm	10

Images & drawings





Address

WAGO Kontakttechnik GmbH & Co. KG

Hansastr. 27

32423 Minden

Telefon: 0571/887-0

Fax: 0571/887-169

<http://www.wago.com>

© WAGO Kontakttechnik GmbH & Co. KG

Technische Änderungen und Irrtümer vorbehalten.