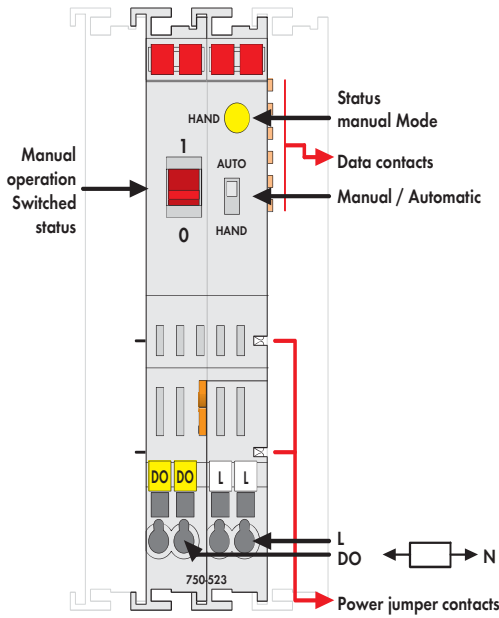
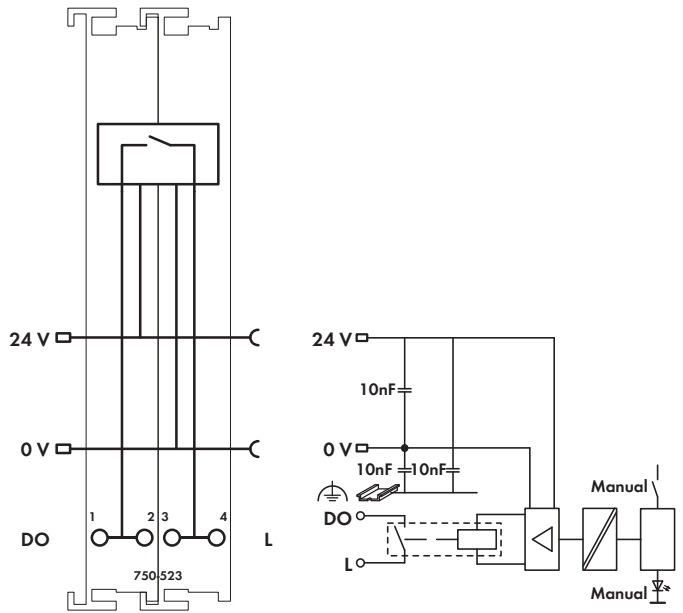


1-Channel Relay Output Module 230 V AC, 16 A

Isolated output; 1 make contact; bistable; manual operation

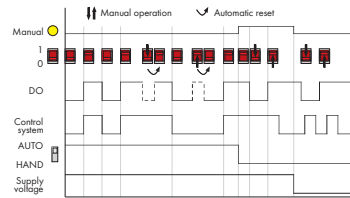


Delivered without miniature WSB markers



A connected actuator or load is switched via the relay output module. The 24VDC supply is derived from the power jumper contacts to trigger the relays. The switched status of the relay is shown by the manual switch (1/0). The operating mode can be set using a manual/automatic selector switch. The mode status is indicated by an LED and via status bits in the process image.
Manual: Coil triggering is interrupted. Actuation only via the red manual operating switches.
Auto: The relay is operated via the control system. Manual status changeover via manual operating switch is canceled by the control system in less than 500ms.
 The manual switch can also be used without 24V supply to switch the output ON.

The relay meets both international standards of IEC and DIN EN 61810 part 1 /VDE 0435 part 201 as well as overload and short circuit requirements of IEC and DIN EN 61036 /61037.



| Description | Item No. | Pack. Unit |
|---|---------------------------------|------------|
| 1DO 230V AC 16A Relay 1a/ Potential | 750-523 | 1 |
| Free | | |
| Accessories | Item No. | Pack. Unit |
| Miniature WSB Quick marking system | | |
| plain | 248-501 | 5 |
| with marking | see pages 352 ... 353 | |
| Approvals Also see "Approvals Overview" in Section 1 | | |
| Conformity marking | CE | |
| Shipbuilding | ABS, DNV, GL, KR, PRS, RINA | |
| UL 508 | | |
| Technical Data | | |
| Switchable lamp loads 100000 operations / 30000 operations | | |
| Incandescent lamp | 1.25 kW / 2.5 kW | |
| Fluorescent lamp, not compensated | 1.2 kW / 2.5 kW | |
| Fluorescent lamp, parallel compensated | 650 W / 70 µF / 1.3 kW / 140 µF | |
| Fluorescent lamp, dual circuit | 2 x 1.2 kW / 2 x 2.5 kW | |
| Halogen lamp (AC 230 V) | 1.2 kW / 2.5 kW | |
| Low voltage halogen lamp with transf. | 500 VA / 500 VA | |
| Mercury arc/Sodium discharge lamp, not compensated | 1 kW / 2 kW | |
| Mercury arc/Sodium discharge lamp, parallel compensated | 1 kW / 70 µF / 2 kW / 140 µF | |
| Dulux lamp, not compensated | 800 W / 1.6 kW | |
| Dulux lamp, parallel compensated | 560 W / 70 µF / 1.1 kW / 140 µF | |

| Technical Data | |
|---------------------------------------|---|
| No. of outputs | 1 make contact |
| Max. current consumption (internal) | 5 mA |
| Max. switching voltage | 440 V AC |
| Switching power | max. 5 kVA |
| Max. switching current | 16 A AC |
| Contact material | AgSnO2 |
| Mechanical life | 10 ⁶ |
| Current consumption max. (field side) | 80 mAs (peak current) |
| Isolation | 1.5 kV eff. (field/system)*; * 2.5 kV rated surge voltage; Overvoltage category III |
| Bit width | 2 bits in (Manual status, -); 2 bits out (DO, -) |
| Wire connection | CAGE CLAMP® |
| Cross sections | 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 14 |
| Stripped lengths | 8 ... 9 mm / 0.33 in |
| Width | 24 mm |
| Weight | 105 g |
| EMC: CE - immunity to interference | acc. to EN 50082-2 (1996) |
| EMC: CE - emission of interference | acc. to EN 50081-1 (1993) |
| EMC: marine applications | |
| - immunity to interference | acc. to Germanischer Lloyd (2003) |
| EMC: marine applications | |
| - emission of interference | acc. to Germanischer Lloyd (2003) |

2-Channel Analog Input Module for Thermocouples

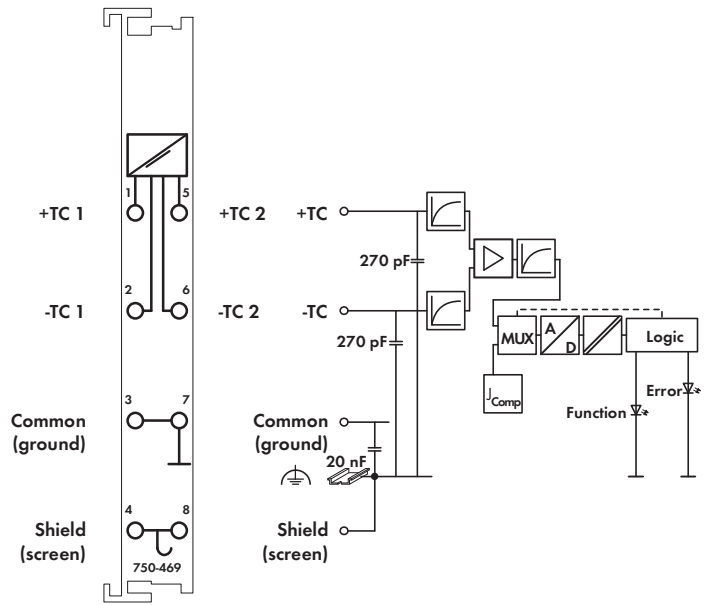
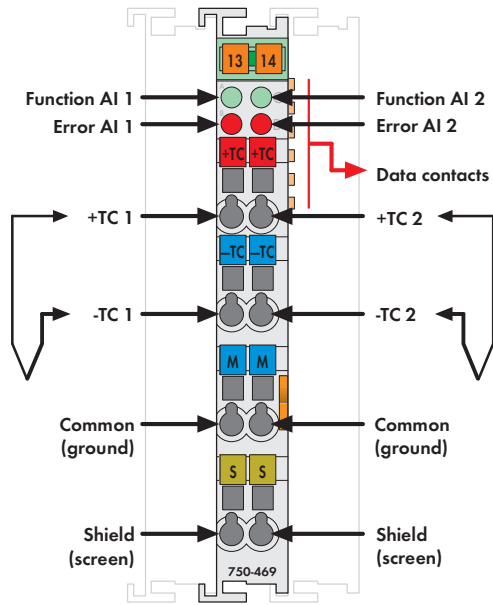


Fig. 750 Series/Technical data see page 24/Delivered without miniature WSB markers
750/753 Series marking see pages 10 ... 11 / 12 ... 13

This input module allows the direct connection of two thermocouples. Internal electrical isolation allows operation of grounded sensors. The module automatically linearizes the entire temperature range. Cold junction compensation is utilized to compensate for the clamping unit offset voltage over the 0–55 °C operating range. A line break 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.

- -100 °C ... +1370 °C; type K
- -50 °C ... +1700 °C; type S
- -100 °C ... +400 °C; type T
- -100 °C ... +1200 °C; type J
- -100 °C ... +1000 °C; type E
- -100 °C ... +900 °C; type L

All listed sensor types are supported by the configurable variation. Set-up using the WAGO-I/O-Check 2 software. Other variations are available upon request: 600 °C ... +1800 °C; type B, -100 °C ... +1300 °C; type N, 0 °C ... +1700 °C; type R, -25 °C ... +600 °C; type U, -120 mV ... +120 mV.

| Description | Item No. | Pack. Unit |
|---|-----------------|------------|
| 2AI Thermocouple/K/Diagn. | 750-469 | 1 |
| 2AI Thermocouple/S/Diagn. | 750-469/000-001 | 1 |
| 2AI Thermocouple/T/Diagn. | 750-469/000-002 | 1 |
| 2AI ±120mV Diagn. | 750-469/000-003 | 1 |
| 2AI Thermocouple/J/Diagn. | 750-469/000-006 | 1 |
| 2AI Thermocouple/E/Diagn. | 750-469/000-008 | 1 |
| 2AI Thermocouple/L/Diagn. | 750-469/000-012 | 1 |
| 2AI Thermocouple/K/Diagn./S5 ¹⁾ | 750-469/000-200 | 1 |
| 2AI Thermocouple/J/Diagn./S5 ¹⁾ | 750-469/000-206 | 1 |
| 2AI Thermocouple/Free Config. | 750-469/003-000 | 1 |
| 2AI Thermocouple/K/Diagn. (without connector) | 753-469 | 1 |

²⁾ Data format for S5 control with FB 251

| Accessories | Item No. | Pack. Unit |
|---|-----------------------|------------|
| 753 Series Connectors | 753-110 | 25 |
| Coding elements | 753-150 | 100 |
| Miniature WSB Quick marking system plain | 248-501 | 5 |
| Miniature WSB Quick marking system with marking | see pages 352 ... 353 | |

| Approvals | Also see "Approvals Overview" in Section 1 |
|--------------------------------------|--|
| Conformity marking | CE |
| Shipbuilding (versions upon request) | ABS, BV, DNV, GL, KR, LR*, NKK*, PRS*, RINA* *753 Series, pending |
| UL 508 | |
| ANSI/ISA 12.12.01 | Class I, Div. 2, Grp. ABCD, T4 |
| EN 60079-0, -15 | I M2 / II 3 GD Ex nA IIC T4 |
| EN 61241-0, -1 | |

| Technical Data | |
|-------------------------------------|---|
| Number of inputs | 2 |
| Power supply | via system voltage DC/DC |
| Max. current consumption (internal) | 65 mA |
| Sensor types | Type K; -100 °C ... +1370 °C (basic variation), optional variations available for type J, B, E, N, R, S, T, U and L |
| Internal resistance | 1 MΩ |
| Cold junction compensation | at each pair of terminal blocks |
| Resolution (over entire range) | 0.1 °C |
| Conversion time | 320 ms (each channel) |
| Measuring error (25 °C) | < ± 6 K (volt. input < ± 2 K, cold junct. < ± 4 K) |
| Temperature coefficient | < ± 0.2 K/K |
| Isolation | 500 V system/supply |
| Bit width | 2 x 16 bits data 2 x 8 bits control/status (optional) |
| Wire connection | CAGE CLAMP® |
| Cross sections | 0.08 mm² ... 2.5 mm² / AWG 28 ... 14 |
| Stripped lengths, 750/753 Series | 8 ... 9 mm / 0.33 in 9 ... 10 mm / 0.37 in |
| Width | 12 mm |
| Weight | 53.5 g |
| EMC: CE - immunity to interference | acc. to EN 61000-6-2 (2005) |
| EMC: CE - emission of interference | acc. to EN 61000-6-4 (2007) |
| EMC: marine applications | |
| - immunity to interference | acc. to Germanischer Lloyd (2003) |
| EMC: marine applications | |
| - emission of interference | acc. to Germanischer Lloyd (2003) |