JUMPFLEX® – 857 Series

Multi-Talented with High Profile

WAGO®
INNOVATIVE CONNECTIONS

JUMPFLEX® – 857 Series

A Complete Product Line is Available, Bringing Each Signal into Shape.

Perfectly pairing a housing with electronics is key to a highly successful device. This is exactly what WAGO has achieved with the new 857 Series Transducers / Relay andOptocoupler Modules.

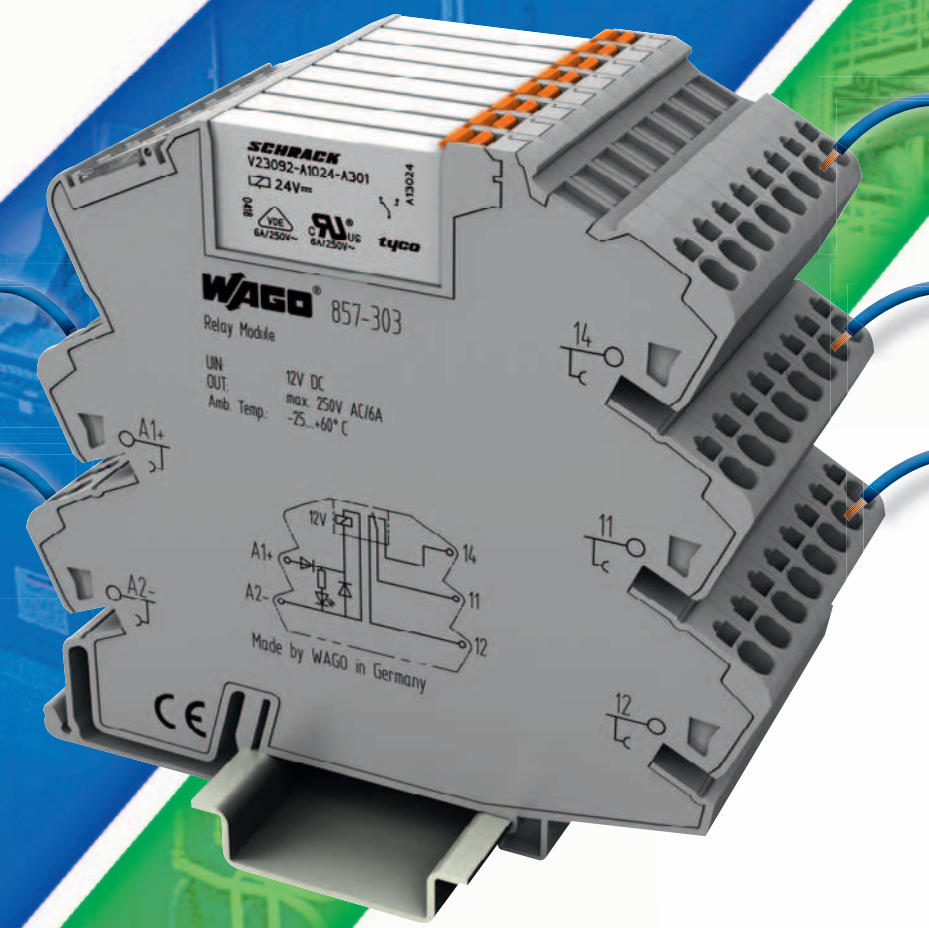
Isolation amplifier / Passive isolator

Repeater power supply / Signal splitter

Frequency transducer

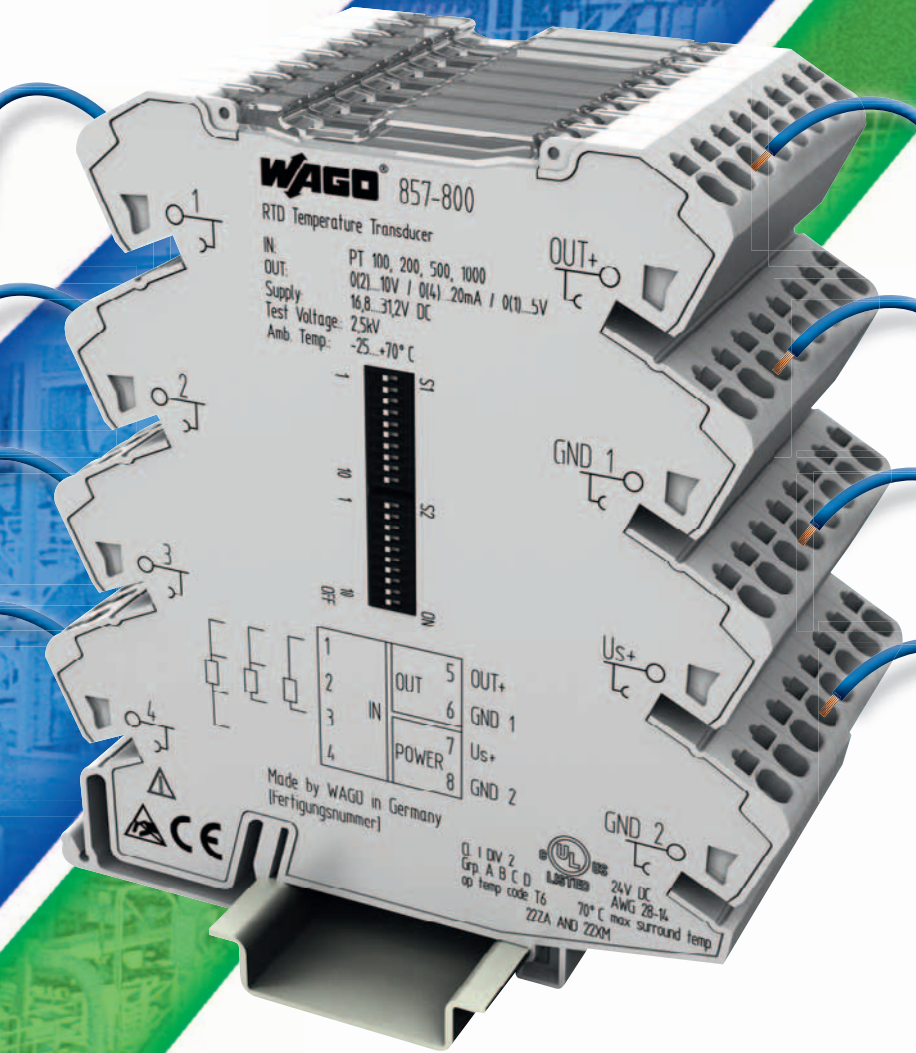
Current transducer AC/DC

Relay and Optocoupler Modules



DC relay modules

DC relay modules with gold contacts



Millivolt transducer

Threshold value switch

Temperature transducers for RTD

Temperature transducers for thermocouples

Optocouplers

AC/DC relay modules

AC/DC relay modules with gold contacts

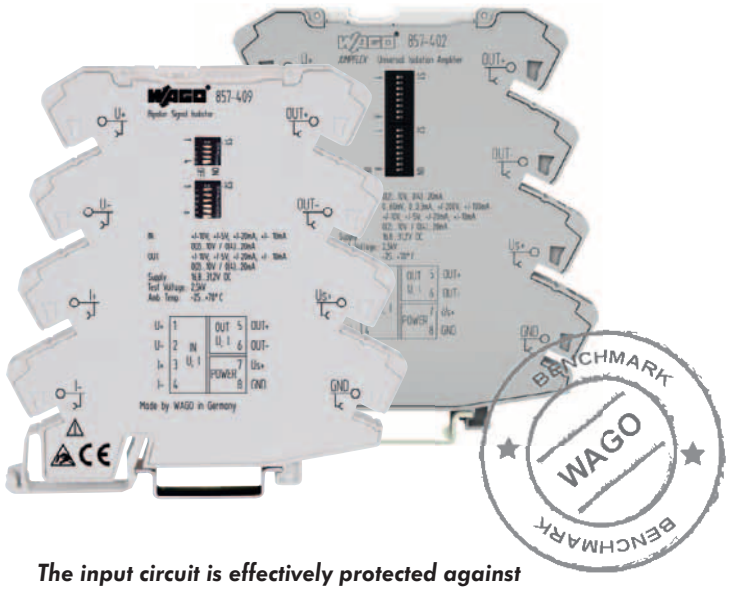
JUMPFLEX® – The Intelligent Solution!

Effectively protected

Requirement:
Input circuit protection against overcurrent.

Solution:
Input overcurrent protection via resettable fuse.

Product:
JUMPFLEX® –
857-409 Bipolar Isolator and
857-402 Universal Isolation Amplifier



The input circuit is effectively protected against overcurrent.

Always right

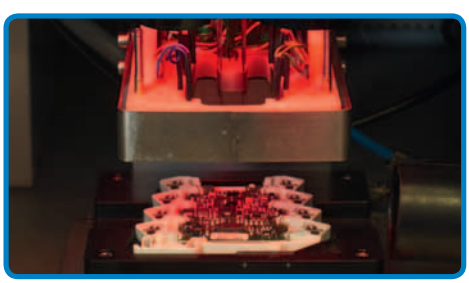
Requirement:
Achieving constant precision values even after range switching.

0 ... 20 mA 4 ... 20 mA

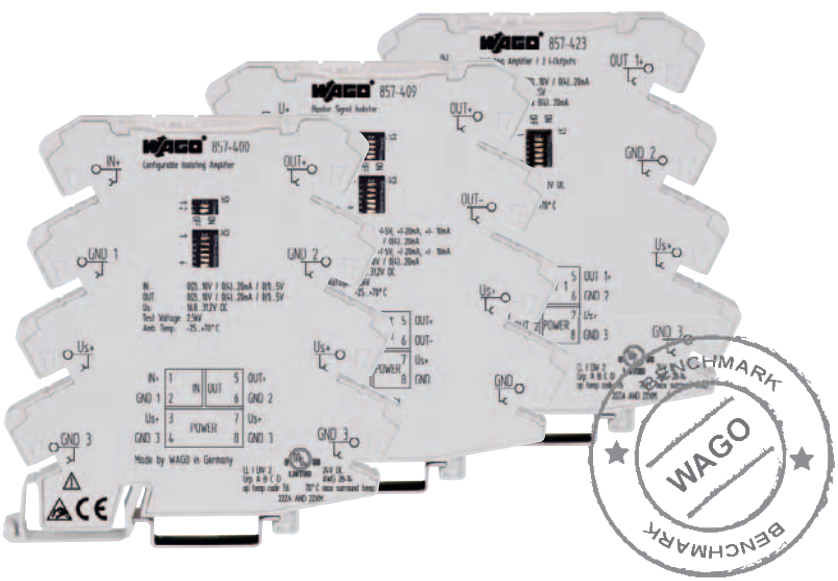
< 0.1 %

(Avoiding recalibration)

Solution:
Providing laser-capable resistors to each individual DIP switch multiplier.



Product:
JUMPFLEX® –
All 857-4xx Series Isolation Amplifiers
(All 857-xxx Series Transducers are configurable and calibrated via DIP switch.)

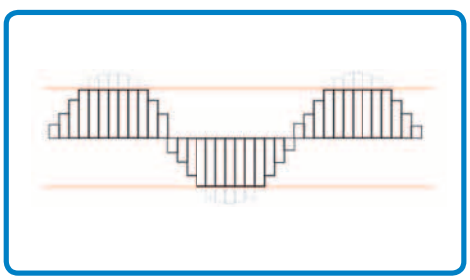


No recalibration is necessary after switching between measuring ranges.

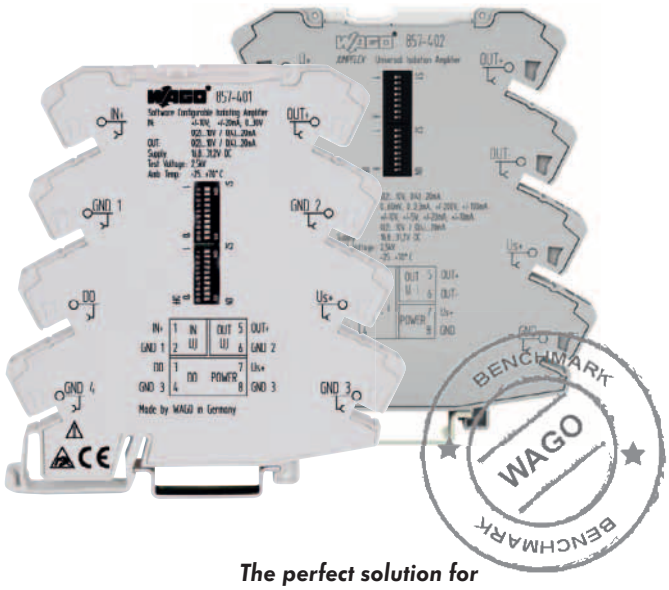
Top Features — Ideally adjusted

Requirement:
Reaching definable end values
for analog standard signals.

Solution:
Clipping capability allows analog standard signal
limitation to upper-range values.



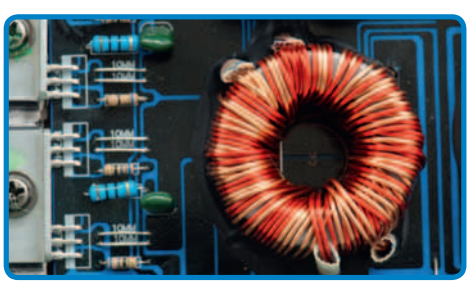
Product:
JUMPFLEX® –
857-401 Software-Configurable Isolation Amplifier
(with configurable digital output (DO))
857-402 Universal Isolation Amplifier



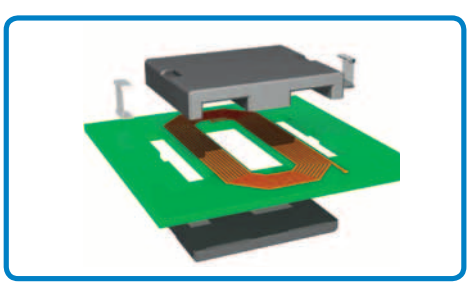
The perfect solution for
any application.

Maximum safety

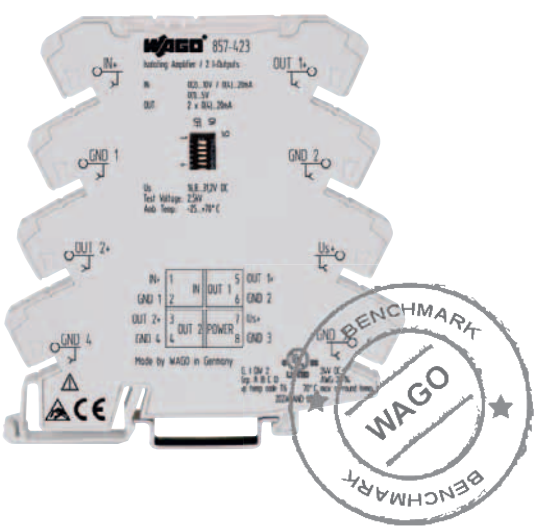
Requirement:
Providing safe electrical isolation of all circuits
(input, output and power supply) without additional costs.



Solution:
Providing multilayer PCB windings with a
ferrite core.



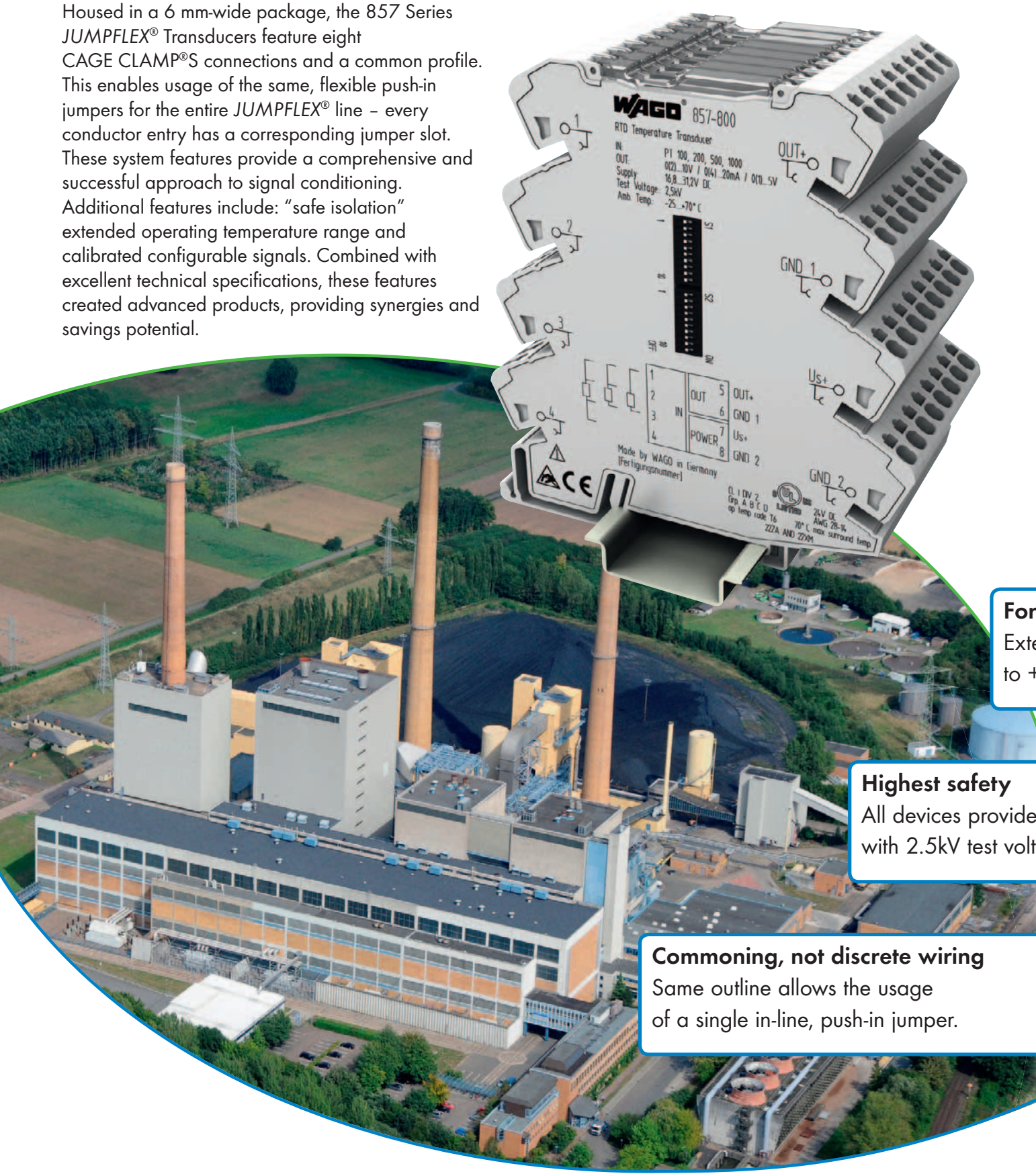
Product:
The complete *JUMPFLEX®* 857 Series
(all transducers and isolation amplifiers)



All devices provide "safe isolation" with 2.5kV
test voltage to EN 61140.

JUMPFLEX® - Transducers – 857 Series

Housed in a 6 mm-wide package, the 857 Series *JUMPFLEX*® Transducers feature eight CAGE CLAMP®S connections and a common profile. This enables usage of the same, flexible push-in jumpers for the entire *JUMPFLEX*® line – every conductor entry has a corresponding jumper slot. These system features provide a comprehensive and successful approach to signal conditioning. Additional features include: "safe isolation" extended operating temperature range and calibrated configurable signals. Combined with excellent technical specifications, these features created advanced products, providing synergies and savings potential.



For
Exte
to +

Highest safety
All devices provide
with 2.5kV test volt

Commoning, not discrete wiring
Same outline allows the usage of a single in-line, push-in jumper.

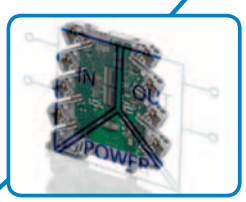
Always right
Laser-capable resistors eliminate recalibration.

Flexibility at its finest
Configuration via DIP switch or configuration tool.

Industry's most compact
"True" 6.0mm (0.23 inch) width maximizes panel space.

extreme applications
ended range of temperatures from -25°C
-70°C to suit more applications.

"safe isolation"
age to EN 61140.



CAGE CLAMP®S

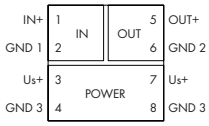
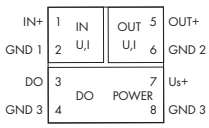
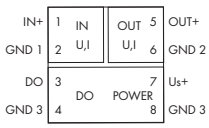
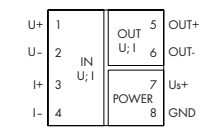
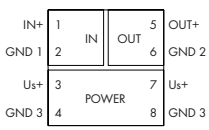
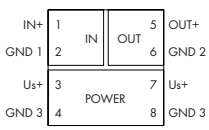
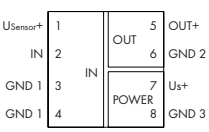
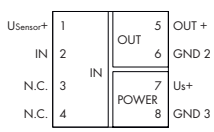
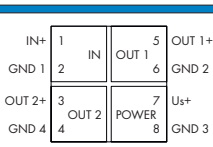
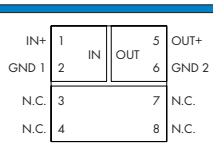
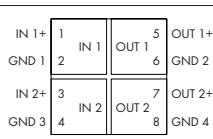
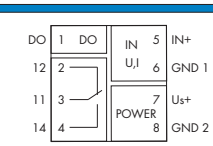
Vibration-proof – fast – maintenance-free
CAGE CLAMP®S termination for all conductor types.

solid

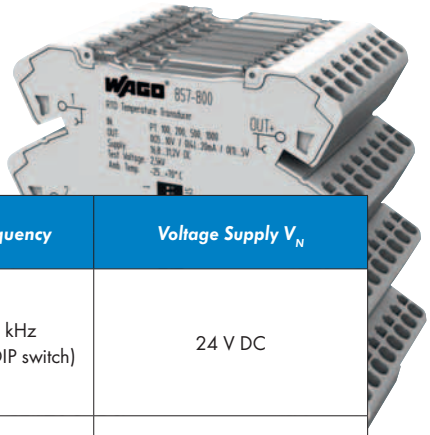
fine-stranded

ferruled

Isolation Amplifiers

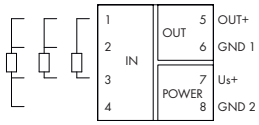
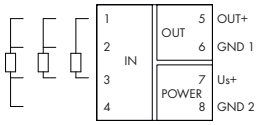
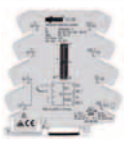
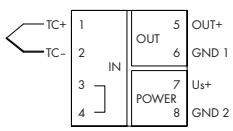
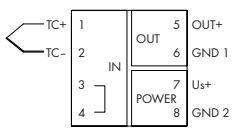
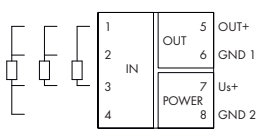
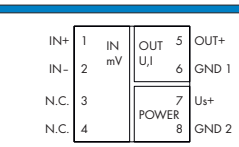
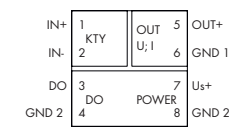
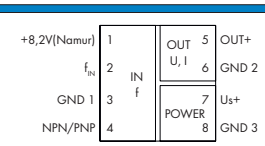
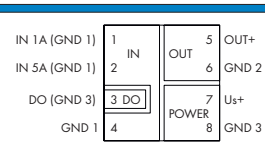
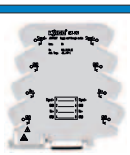
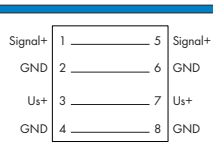
Description			Item No.	Configuration	
				Dip Switch	FDT/DTM
Isolation amplifier, configurable with zero/span adjustment			*857-400*	x	
Isolation amplifier, configurable with digital output			*857-401*	x	x
Universal isolation amplifier			*857-402*	x	
Bipolar isolation amplifier			*857-409*	x	
Isolation amplifiers, fixed setting for voltage signals			*857-411*		
Isolation amplifiers, fixed setting for current signals			*857-412*		
Repeater power supply, configurable with current and voltage output			*857-420*	x	
Repeater power supply, HART			*857-421*		
Signal splitter with 2 configurable current outputs			*857-423*	x	
Passive isolator, 1 channel			*857-451*		
Passive isolator, 2 channels			*857-452*		
Threshold value switch with analog input and changeover relay output			*857-531*	x	FDT/DTM + Teach In

Ambient operating temperature for all devices: - 25 °C ... +70 °C



Input Signal (configurable and calibrated)	Output Signal (configurable and calibrated)	Load Impedance	Operating Frequency	Voltage Supply V_N
0 ... 20 mA, 4 ... 20 mA, 0... 5 V, 1 ... 5 V, 0 ... 10 V, 2 ... 10 V,	0 ... 20 mA, 4 ... 20 mA, 0... 5 V, 1 ... 5 V, 0 ... 10 V, 2 ... 10 V,	600 Ω (I-output) 2 kΩ (U-output)	100 Hz / > 5 kHz (configurable via DIP switch)	24 V DC
-10 ... +10 V, -20 ... +20 mA, 0 ... +30 V	0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V, 2 ... 10 V, 0... 5 V, 1 ... 5 V, 0 ... 10 mA, 2 ... 10 mA	≤ 600 Ω (I-output) ≥ 2 kΩ (U-output)	125 Hz	24 V DC
Voltage: ± 60 mV to ± 200 V 0 ... 60 mV to ± 0 ... 200 V **Current:** ± 0,3 mA to ± 100 mA 0 ... 0,3 mA to 0 ... 100 mA	**Voltage:** ± 10 V, 0 ... 10 V, 2 ... 10 V, ± 5 V, 0 ... 5 V, 1 ... 5 V **Current:** ± 20 mA, 0 ... 20 mA, 4 ... 20 mA, ± 10 mA, 0 ... 10 mA, 2 ... 10 mA	≤ 600 Ω (I-output) ≥ 2 kΩ (U-output)	100 Hz / > 5 kHz (configurable via DIP switch)	24 V DC
± 5 V, 0 ... 5 V, 1 ... 5 V, ± 10 V, 0 ... 10 V, 2 ... 10 V, ± 10 mA, 0 ... 10 mA, 2 ... 10 mA, ± 20 mA, 0 ... 20 mA, 4 ... 20 mA	± 5 V, 0 ... 5 V, 1 ... 5 V, ± 10 V, 0 ... 10 V, 2 ... 10 V, ± 10 mA, 0 ... 10 mA, 2 ... 10 mA, ± 20 mA, 0 ... 20 mA, 4 ... 20 mA	≤ 600 Ω (I-output) ≥ 2 kΩ (U-output)	100 Hz / > 5 kHz (configurable via DIP switch)	24 V DC
0(4) ... 20 mA	0(4) ... 20 mA	600 Ω	100 Hz	24 V DC
0(2) ... 10 V	0(2) ... 10 V	2 kΩ	100 Hz	24 V DC
0 ... 20 mA, 4 ... 20 mA	0 ... 20 mA, 4 ... 20 mA, 0... 5 V, 0 ... 10 V, 2 ... 10 V, 1 ... 5 V	600 Ω (I-output) 2 kΩ (U-output)	100 Hz	24 V DC
4 ... 20 mA	4 ... 20 mA	600 Ω	100 Hz Signal / HART ≥ 2.5 kHz	24 V DC
0 ... 20 mA, 4 ... 20 mA, 0... 5 V, 0 ... 10 V, 2 ... 10 V, 1 ... 5 V	2 x 0(4) ... 20 mA	2 x 300 Ω	100 Hz / > 1 kHz (configurable via DIP switch)	24 V DC
0(4) ... 20 mA	0(4) ... 20 mA	600 Ω	100 Hz	
0(4) ... 20 mA	0(4) ... 20 mA	600 Ω	100 Hz	
-10...+10 V, -20...+20 mA 0...+30 V	1 changeover contact, 6 A digital output			24 V DC

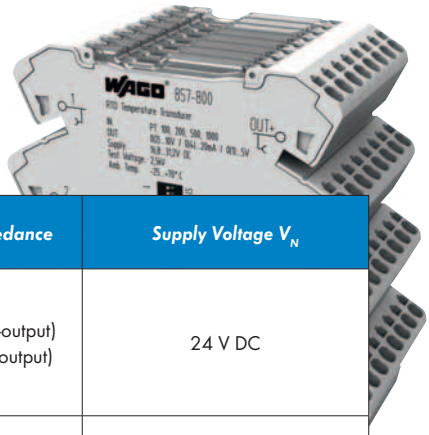
Temperature Transducers and Transducers with Specialty Signals

Description			Item No.	Configuration	
				Dip Switch	FDT/DTM
Temperature transducer for Pt100, Pt200, Pt500 and Pt1000 as well as resistors 0 ... 1 kOhm; 0 ... 4.5 kOhm			*857-800*	x	
Temperature transducer for Pt100, Pt200, Pt500 and Pt1000 as well as resistors 0 ... 1 kOhm; 0 ... 4.5 kOhm			*857-801*	x	x
Temperature transducer for thermocouples of types J and K			*857-810*	x	
Temperature transducer for thermocouples of types J, K, E, R, N, S, T, B, S			*857-811*	x	x
Ni Transducer for Ni 100, Ni 120, Ni 200, Ni 500, Ni 1000			*857-818*	x	
Millivolt transducer; Records all mV signals ranging from -100 mV to +100 mV; 0 mV ... 1000 mV			*857-819*	x	x
KTY Transducer			*857-820*	x	
Frequency transducer			*857-500*	x	
Current transducer			*857-550*	x	
Supply and Through Module			*857-979*		

Ambient operating temperature for all devices: - 25 °C ... +70 °C

* KTY81-110, KTY81-120, KTY81-150, KTY82-110, KTY82-120, KTY82-150, KTY81-121, KTY82-121, KTY81-122, KTY82-122, KTY81-210, KTY81-220, KTY82-210, KTY82-2
KTY83-151, KTY84-130, KTY84-150, KTY84-151, KTY16, KTY19, ST13, ST20

**Operating restrictions may occur within the temperature range



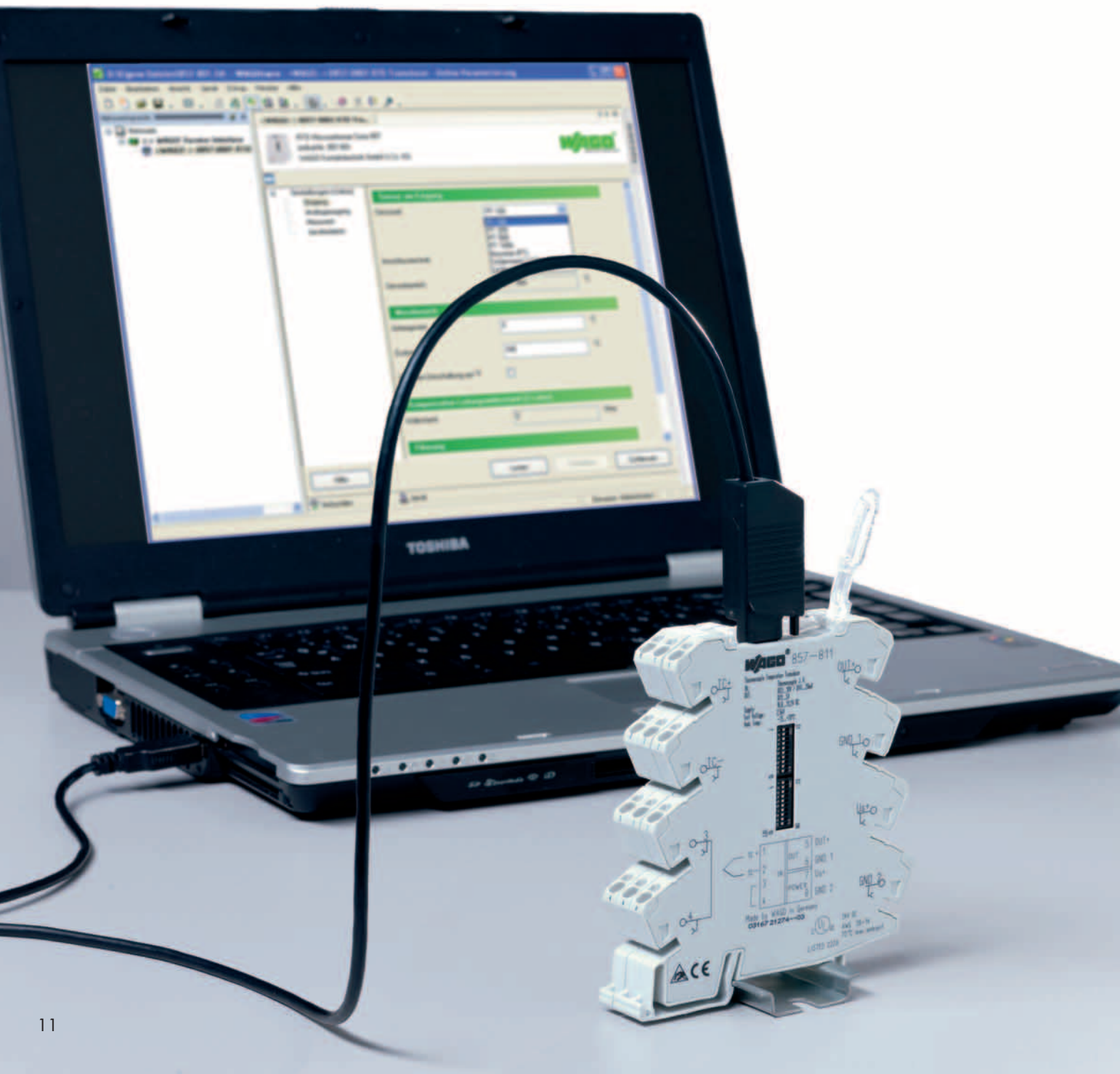
Input Signal	Sensor Connection	Sensor Temperature Range	Output Signal	Load Impedance	Supply Voltage V_N
Pt sensors Pt100, Pt200, Pt500, Pt1000 **Resistors** 0 ... 1 kΩ; 0 ... 4,5 kΩ	2-wire, 3-wire, 4-wire (switchable)	-200 °C ... +850 °C	0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V, 2 ... 10 V, 0... 5 V, 1 ... 5 V, 0 ... 10 mA, 2 ... 10 mA	≤ 600 Ω (I-output) ≥ 2 kΩ (U-output)	24 V DC
Pt sensors Pt100, Pt200, Pt500, Pt1000 **Resistors** 0 ... 1 kΩ; 0 ... 4,5 kΩ	2-wire, 3-wire, 4-wire (switchable)	-200 °C ... +850 °C	0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V, 2 ... 10 V, 0... 5 V, 1 ... 5 V, 0 ... 10 mA, 2 ... 10 mA	≤ 600 Ω (I-output) ≥ 2 kΩ (U-output)	24 V DC
Thermocouples Type J, Type K		**Type J:** -150 °C ... +1200 °C **Type K:** -150 °C ... +1350 °C	0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V, 2 ... 10 V, 0... 5 V, 1 ... 5 V, 0 ... 10 mA, 2 ... 10 mA	≤ 600 Ω (I-output) ≥ 2 kΩ (U-output)	24 V DC
Thermocouples Type J, K, E, R, N, S, T, B, S		**Type J:** -150 °C ... +1200 °C **Type K:** -150 °C ... +1350 °C	0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V, 2 ... 10 V, 0... 5 V, 1 ... 5 V, 0 ... 10 mA, 2 ... 10 mA	≤ 600 Ω (I-output) ≥ 2 kΩ (U-output)	24 V DC
Ni sensors Ni 100, Ni 120, Ni 200, Ni 500, Ni1000	2-wire, 3-wire, 4-wire (switchable)		0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V, 2 ... 10 V, 0... 5 V, 1 ... 5 V, 0 ... 10 mA, 2 ... 10 mA	≤ 600 Ω (I-output) ≥ 2 kΩ (U-output)	24 V DC
-100 mV ... +100 mV, 0 mV ... 200 mV bis 0 mV ... 1000 mV (in 100 mV increments)			0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V, 2 ... 10 V, 0... 5 V, 1 ... 5 V, 0 ... 10 mA, 2 ... 10 mA	≤ 600 Ω (I-output) ≥ 2 kΩ (U-output)	24 V DC
KTY sensors *	2-wire		0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V, 2 ... 10 V, 0... 5 V, 1 ... 5 V, 0 ... 10 mA, 2 ... 10 mA	≤ 600 Ω (I-output) ≥ 2 kΩ (U-output)	24 V DC
Frequency signals, NAMUR-, NPN or PNP sensors 0.1 Hz bis 120 kHz			0 ... 10 V, 2 ... 10 V, 0 ... 5 V, 1 ... 5 V 0 ... 20 mA, 4 ... 20 mA, 0 ... 10 mA, 2 ... 10 mA	≤ 600 Ω (I-output) ≥ 2 kΩ (U-output)	24 V DC
0 ... 1 A AC/DC; 0 ... 5 A AC/DC			0 ... 10 V, 2 ... 10 V, 0 ... 5 V, 1 ... 5 V 0 ... 20 mA, 4 ... 20 mA, 0 ... 10 mA, 2 ... 10 mA	≤ 600 Ω (I-output)** ≥ 2 kΩ (U-output)	24 V DC
		33 V AC/DC / 2 A			

20, KTY81-221, KTY82-221, KTY81-222, KTY82-222, KTY81-250, KTY82-250, KTY83-110, KTY83-120, KTY83-150, KTY83-121, KTY83-122,

JUMPFLEX® Transducer Parameter Setting

Select *JUMPFLEX*® Transducers can also be parameterized via WAGOframe software tool. The WAGOframe FDT/DTM-based configuration tool provides parameterization, start-up and field device diagnostics. DTM device drivers, for the devices employed, are required to use the WAGOframe FDT frame application.

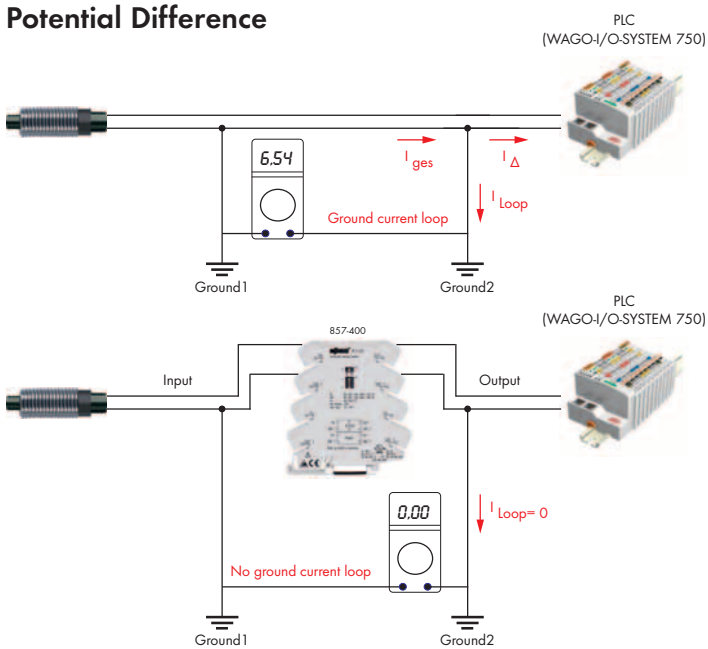
The WAGOframe FDT frame application provides a wizard, simplifying the operation of components, such as WAGO *JUMPFLEX*® DTMs. This wizard guides the user through the different operating modes of DTM device drivers.
Depending on the PC communication interface used, an appropriate communication cable including DTM is required.



Application Examples for Avoiding Corruption of Analog Signals

In industrial applications, there are several requirements for safe and economical signal matching that demand appropriate solutions. This is precisely where the strengths of analog technology lie. For years it has been used successfully in all branches of industry, including factory automation and process technology.

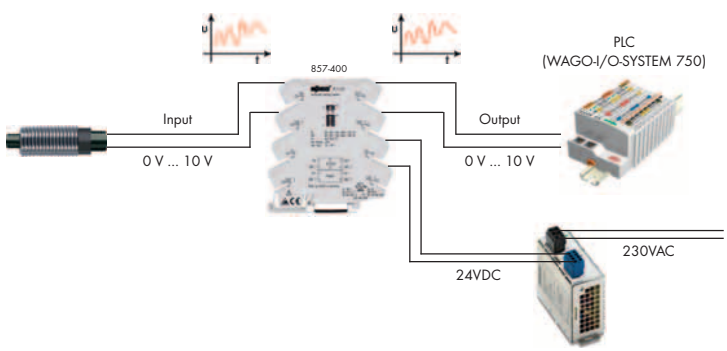
Potential Difference



The main cause of analog signal corruptions are potential differences that arise. With increasing transmission lengths, the ground resistance increases. Thus, differences of up to 200V can arise. With signals having ground reference, these ground loops can cause corruptions since particular parts of the signal are not transmitted via analog line, but via ground. Thus, there is a faulty signal assessment.

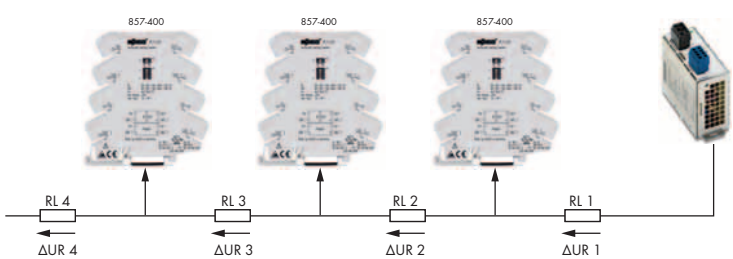
In this instance, an isolation amplifier helps since it prevents the arising of a ground current loop. Galvanic isolation of the input circuit from the output circuit breaks up this ground loop and enables perfect signal transmission. Smaller overvoltages with a lower energy level that can arise due to switching operations are dissipated safely. In addition, the output side downstream controller is protected by the galvanic isolation.

Signal Filtering



If the signal to be processed is burdened with disturbances, it is freed of the disturbances by the signal filtering with an internal filter in the input of the isolation amplifier. The signal is then transmitted to the superior controller. This way, the devices can be adapted flexibly to the frequency range in which the disturbance lies using DIP switches. The disturbances are thus filtered out safely.

Linked Measurement Circuits



A frequent cause of potential differences is linked measurement circuits for which the reference voltage is raised by combining several signal circuits. Thanks to the use of isolation amplifiers, this problem is eliminated since galvanic isolation of the isolation amplifier eliminates the influence of various reference voltages.

The 857 Series *JUMPFLEX*® Transducers make a solid contribution to system safety for many problems that occur by providing a continuous galvanic 3-way isolation with test voltages of 2.5kV between all channels (input/output/supply).

JUMPFLEX® - Sockets with Miniature Switching Relay and Solid State Relay – 857 Series

Housed in a 6mm-wide package, WAGO 857 Series relay and optocoupler modules offer the same dimensional outline. The modules also employ a flexible, in-line push-in jumper system, allowing both time and cost savings. An example of this is the ability to common power supply potentials for a group of relays and optocoupler modules, eliminating additional wiring.
The pluggable relays can be replaced quickly and easily when needed.
An optional interface adapter plugs on the input or output side, combining eight modules and connecting them via ribbon cable.

Quick and easy replacement
Pluggable relays and optocouplers

Industry's most compact
"True" 6.0mm (0.23 inch) width maximizes panel space.

Highly versatile
Input voltage available in 5-230 V AC/DC variants

moning, not discrete wiring
outline allows the usage
ingle in-line, push-in jumper.

CAGE CLAMP®S

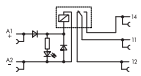
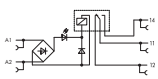
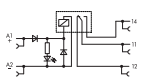
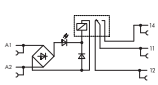
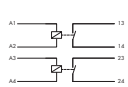
Vibration-proof, fast and maintenance-free
CAGE CLAMP®S termination for all conductor types.


solid


fine-stranded

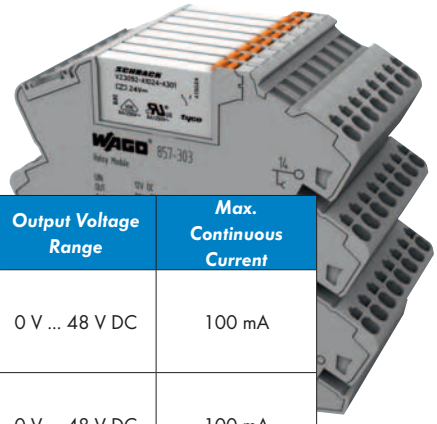

ferruled

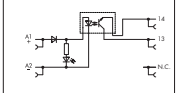
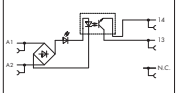
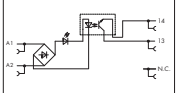
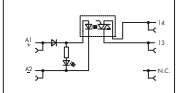
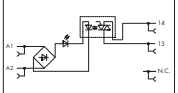
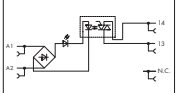
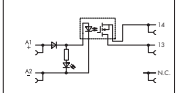
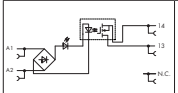
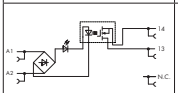
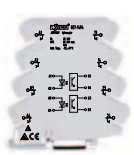
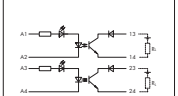
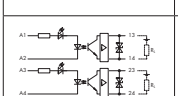
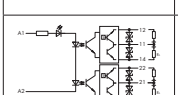
Relays and Optocpuplers

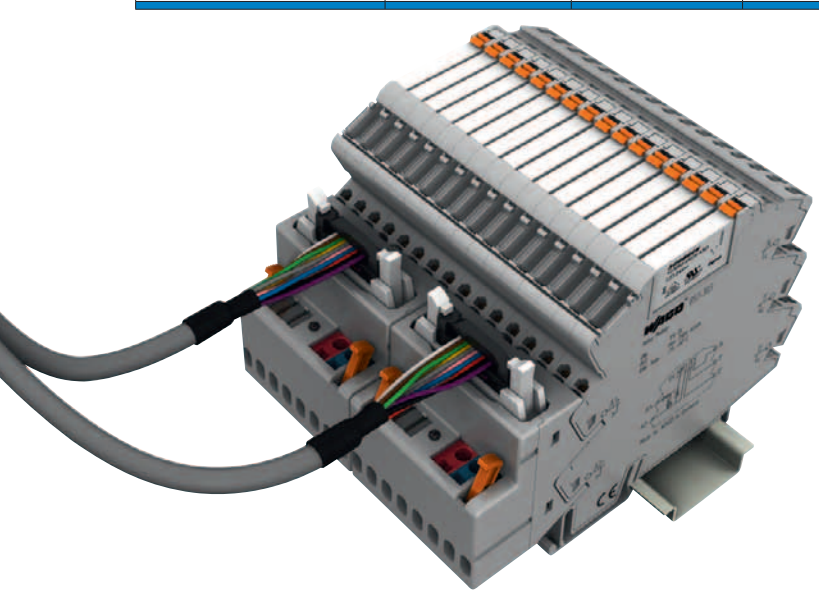
Description			Item No.	Input Nominal Voltage V_N	Max. Switching Voltage	Max. Continuous Current
Relay with 1 changeover contact			***857-303*** ***857-304*** ***857-305*** ***857-306*** ***857-307*** ***857-308***	12 V DC 24 V DC 48 V DC 60 V DC 110 V DC 220 V DC	250 V AC	6 A
			***857-354*** ***857-357*** ***857-358***	24 V AC/DC 115 V AC/DC 230 V AC/DC	250 V AC	6 A
			857-304/008-000 ***857-358/008-000***	24 V DC 230 V AC/DC	250 V AC	8 A
Relay with 1 changeover contact, with gold contacts			***857-314*** ***857-317*** ***857-318***	24 V DC 110 V DC 220 V DC	36 V DC* / (250 V AC/DC)	50 mA* / (6 A)
			***857-364*** ***857-367*** ***857-368***	24 V AC/DC 115 V AC/DC 230 V AC/DC	36 V DC* / (250 V AC/DC)	50 mA* / (6 A)
2 relays, with 1 make contact			***857-1330***	24 V AC/DC	250 V AC	4 A

Description			Item No.	Input Nominal Voltage V_N	
Sockets for Miniature Switching Relay and Optocoupler			***857-104***	AC/24 V DC	For replacement relays and optocouplers, see accessories on page 16
			857-107	AC/DC 110 V	
			857-108	AC/DC 230 V	

* In order to prevent the gold layer from being damaged, these values shall not be exceeded. (In case of damaged gold layer, the values in parens apply).
Higher switching power leads to evaporation of the gold layer.



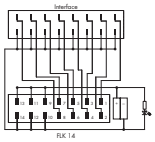
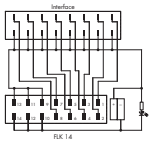
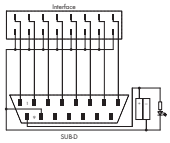
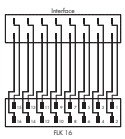
Description			Item No.	Input Nominal Voltage V_N	Output Voltage Range	Max. Continuous Current
Solid state relay			**857-704**	24 V DC	0 V ... 48 V DC	100 mA
			**857-707**	115 V AC/DC	0 V ... 48 V DC	100 mA
			**857-708**	230 V AC/DC	0 V ... 48 V DC	100 mA
Solid state relay			**857-714**	24 V DC	24 V ... 240 V AC	1 A
			**857-717**	115 V AC/DC	24 V ... 240 V AC	1 A
			**857-718**	230 V AC/DC	24 V ... 240 V AC	1 A
Solid state relay			**857-724**	24 V DC	0 V ... 24 V DC	2 A
			**857-727**	115 V AC/DC	0 V ... 24 V DC	2 A
			**857-728**	230 V AC/DC	0 V ... 24 V DC	2 A
Solid state relay			**857-1494**	2 x 24 V DC	2 x 9 V ... 60 V DC	2 x 0.1 A
			**857-1430**	2 x 24 V DC	2 x 3 V ... 30 V DC	2 x 3 A
			**857-1432**	24 V DC	3 V ... 30 V DC	2 x 0.5 A

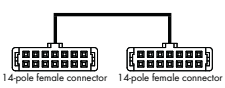
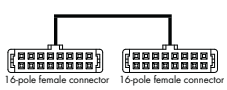
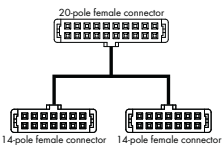
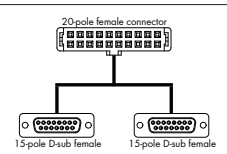


The 857-98x Interface Adapter provides a fast and reliable connection between WAGO I/O modules equipped with ribbon cable connector (e.g., 750-1500 and 750-1502) and *JUMPFLEX*® relay and optocoupler modules.

Suitable ribbon cable assemblies are also available as accessories.

Accessories

JUMPFLEX®- 8-Channel Adapter for System Wiring			
8-channel adapter with 14-pin ribbon cable connector acc. to DIN 41651 Input, positive switching			***857-981***
8-channel adapter with 14-pin ribbon cable connector acc. to DIN 41651 Output, positive switching			***857-982***
8-channel adapter with SUB-D male connector Input, positive switching			***857-986***
8-channel adapter with 16-pin ribbon cable connector acc. to DIN 41651 (suitable for transducers)			***857-980***

WAGO Ribbon Cables			
The 14-pin cables transmit the signal one-to-one from the 14-pole female connector and are available in 1-, 2- and 3-meter lengths. ***(for 857-981 and 857-982)***			
WAGO ribbon cable 14/14, 1m long			***706-753/300-100***
WAGO ribbon cable 14/14, 2m long			***706-753/300-200***
WAGO ribbon cable 14/14, 3m long			***706-753/300-300***
The 16-pin cables transmit the signal one-to-one from the 16-pole female connector and are available in 1-, 2- and 3-meter lengths. Signal transmission from the ***857-980*** Interface Adapter is also possible.			
WAGO ribbon cable 16/16, 1m long			***706-753/301-100***
WAGO ribbon cable 16/16, 2m long			***706-753/301-200***
WAGO ribbon cable 16/16, 3m long			***706-753/301-300***
The cables provide fast and easy connection of WAGO I/O modules featuring ribbon cable connectors. The following WAGO I/O modules and adapters are compatible: ***750-1500 (16 DO) – > 857-981 (DO); 750-1502 (8 DO / 8 DI) –> 857-981 (DO) and 857-982 (DI)*** The ribbon cables are available in 1-, 2- and 3-meter lengths; each has one 20-pole or two 14-pole female connectors on the ends.			
WAGO ribbon cable 20/2x14, 1m long			***706-7753/304-100***
WAGO ribbon cable 20/2x14, 2m long			***706-7753/304-200***
WAGO ribbon cable 20/2x14, 3m long			***706-7753/304-300***
The cables provide fast and easy connection of WAGO I/O modules featuring ribboncable connectors. The following WAGO I/O modules and D-sub adapters are compatible: ***750-1500 (16 DO) –> 857-986 (DO)*** The ribbon cables are available in 1-, 2- and 3-meter lengths; each has one 20-pole or two 15-pole female connectors on the ends.			
WAGO ribbon cable 20/2x15, 1m long			***706-7753/306-100***
WAGO ribbon cable 20/2x15, 2m long			***706-7753/306-200***
WAGO ribbon cable 20/2x15, 3m long			***706-7753/306-300***

Push-in Type Jumper Bars, Operating Tool, WAGO USB Service Cable, Marking			
Push-in type jumper bars, light gray, insulated, 18 A		2-way	**859-402**
		3-way	**859-403**
		4-way	**859-404**
		5-way	**859-405**
		6-way	**859-406**
		7-way	**859-407**
		8-way	**859-408**
		9-way	**859-409**
		10-way	**859-410**
Item no. suffix for colored push-in type jumper bars		yellow	**... /000-029**
		red	**... /000-005**
		blue	**... /000-006**
Comb-style jumper bar, insulated	(Jumper for clamping units)	2-way	**281-482**
Operating tool, with partially insulated shaft	Type 2, blade (3.5 x 0.5) mm		**210-720**
WAGO USB service cable	Connection between PC (notebook) and service interface of 857 Series transducers		**750-923**
WAGOframe	FDT frame application for parameterization, commissioning and diagnostics of devices with DTM device driver		**759-370**
Marking	WMB Multi marking system		**see www.wago.com**

Replacement Relays and Optocouplers					
		Input Voltage	Item No. Relay	Item No. Socket	Item No. ***Replacement Relay and Optocoupler***
Miniature Switching Relays		12 V DC	857-303	857-103	**857-150**
		24 V DC	857-304	857-104	**857-152**
		48 V DC	857-305	857-105	**857-154**
		60 V DC	857-306	857-106	**857-155**
		110 V DC	857-307	857-107	**857-155**
		220 V DC	857-308	857-108	**857-155**
		24 V AC/DC	857-354	857-104	**857-152**
		115 V AC/DC	857-357	857-107	**857-155**
		230 V AC/DC	857-358	857-108	**857-155**
Miniature Switching Relays (gold contacts)		24 V DC	857-314	857-104	**857-153**
		110 V DC	857-317	857-107	**857-157**
		220 V DC	857-318	857-108	**857-157**
		24 V AC/DC	857-364	857-104	**857-153**
		115 V AC/DC	857-367	857-107	**857-157**
		230 V AC/DC	857-368	857-108	**857-157**
Solid State Relays		24 V DC	857-704	857-104	**857-164**
		115 V AC/DC	857-707	857-107	**857-165**
		230 V AC/DC	857-708	857-108	**857-165**
		24 V DC	857-714	857-104	**857-167**
		115 V AC/DC	857-717	857-107	**857-168**
		230 V AC/DC	857-718	857-108	**857-168**
		24 V DC	857-724	857-104	**857-161**
		115 V AC/DC	857-727	857-107	**857-162**
		230 V AC/DC	857-728	857-108	**857-162**

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