

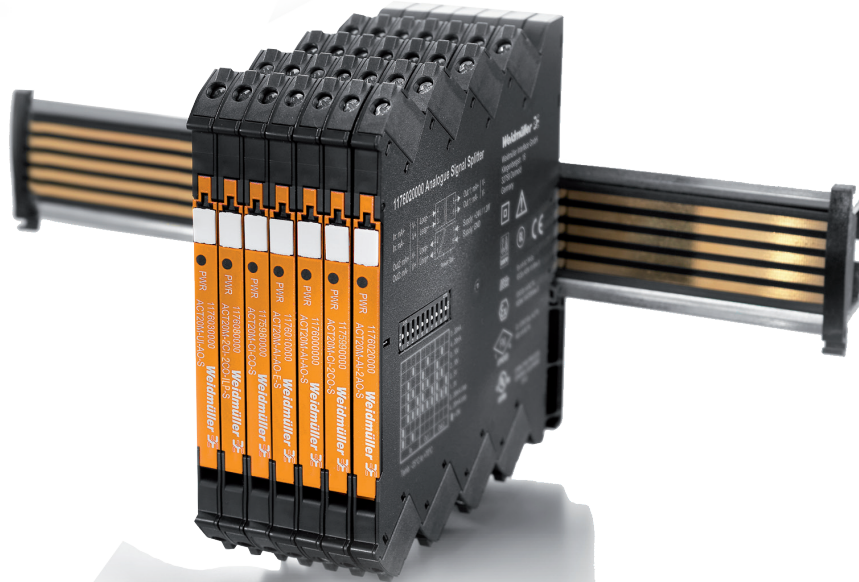
Your process signals requires extreme care
With our products you will be safe
Let's connect.

Signal converters



Signal converters ACT20M

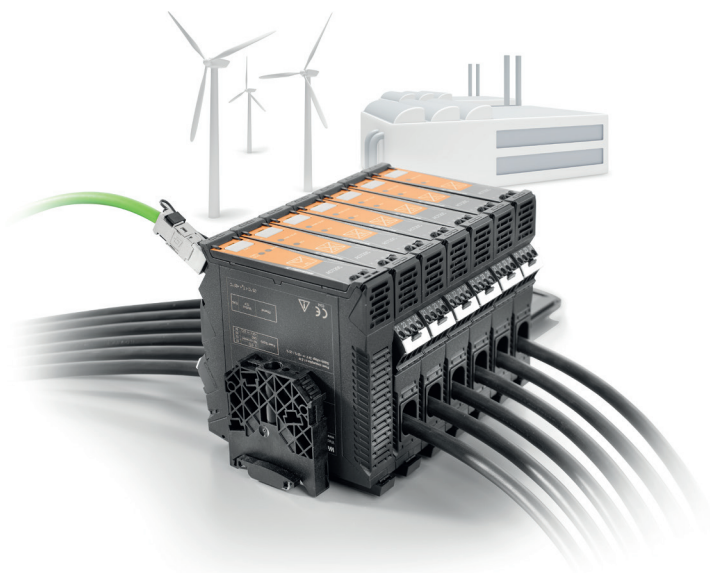
- width 6 mm saves space in the control cabinet
- simple configuration with DIP switches
- wide operating temperature range from -25 to + 70°C
- galvanic isolation up to 2.5 kV
- accuracy up to 0.05%
- possibility of using power bus
- wide product range
- international approvals



Order number	Designation	Number of channels	Input							Output					Settings		Power		Accuracy				
			0 (4) .. 20 mA passive	0 (4) .. 20 mA active	0(1) .. 5V	0(2) .. 10V	-20mA..0..+20mA	-10..0..+10mA	-10(-5)..0..+10(+5)V	P100 2, 3, 4 wire	Thermocouple J/K	0(4) .. 20mA passive	0(4) .. 20mA active	0(1) .. 5V	0(2) .. 10V	-20mA..0..+20mA	-10..0..+10mA	Splitter		DIP switch	FDT software	Auxiliary power 24VDC	Output loop powered
1175980000	ACT20M-CI-CO-S	1	•								•									•			≤ 0,05%
1176000000	ACT20M-AI-AO-S	1	•	•	•	•					•	•	•					•		•			≤ 0,05%
1176010000	ACT20M-AI-AO-E-S	1	•		•	•					•	•	•					•		•			≤ 0,2%
1375450000	ACT20M-BAI-AO-S	1						•	•	•	•	•	•					•		•			≤ 0,05%
1175990000	ACT20M-CI-2CO-S	1	•								•					•				•			≤ 0,05%
1176020000	ACT20M-AI-2AO-S	1	•	•	•	•					•	•	•					•		•			≤ 0,05%
1375470000	ACT20M-BAI-2AO-S	1						•	•	•	•	•	•	•	•			•		•			≤ 0,05%
1176070000	ACT20M-CI-CO-ILP-S	1	•								•										•		≤ 0,1%
1176080000	ACT20M-2CI-2CO-ILP-S	2	•								•										•		≤ 0,1%
1176040000	ACT20M-CI-CO-OLP-S	1		•							•										•		≤ 0,05%
1176050000	ACT20M-2CI-2CO-OLP-S	2		•							•										•		≤ 0,05%
1435590000	ACT20M-RTCI-CO-OLP-S	1								•	•							•		•			≤ 0,05%
1435610000	ACT20M-RTI-CO-EOLP-S	1								•	•							•		•			≤ 0,1%
1375510000	ACT20M-RTI-AO-S	1								•	•	•						•		•			≤ 0,05%
1375520000	ACT20M-RTI-AO-E-S	1								•	•	•						•		•			≤ 0,1%
1375480000	ACT20M-TCI-AO-S	1							•	•	•	•						•		•			≤ 0,05%
1375500000	ACT20M-TCI-AO-E-S	1							•	•	•	•						•		•			≤ 0,1%
1176030000	ACT20M-UI-AO-S	1	•	•	•	•					•	•	•					•		•			≤ 0,1%

Signal converters ACT20P

- customisable protection against mismatching
- simple configuration with DIP switches
- wide operating temperature range from -20 to + 70°C
- galvanic isolation up to 4kV
- accuracy up to 0.05%
- suitable for HART transparent communication
- wide product range
- international approvals



Order number	Type	Number of channels	Input										Output					Settings		Power		Accuracy	Suitable for HART transparent communication	
			0(4)..20mA passive	0(4)..20mA active	0(1)..5V	0(2)..10V	-20mA..0..+20mA	-10..0..+10mA	-10(-5)..0..+10(+5)V	P100 2, 3, 4 wire	Thermocouple -J/K	0(4)..20mA passive	0(4)..20mA active	0(1)..5V	0(2)..10V	-20mA..0..+20mA	-10..0..+10mA	Splitter	DIP switch	Software	Auxiliary power 24VDC			Output loop powered
7760054114	ACT20P-CI-CO	1	•	•															•				≤ 0,1%	•
7760054115	ACT20P-CI-2CO	1	•	•															•				≤ 0,1%	•
7760054117	ACT20P-2CI-2CO-12	2	•																•				≤ 0,1%	•
Universal converters			Input										Output											
1481970000	ACT20P-PRO DCDC IIS	± 0.1mA...± 100 mA, ±20 mV...±300 V										0...±20 mA, 0...±10 V					•		•		≤ 0,05%			
1453210000	ACT20P-UHAO-DO-LPS	± 5ADC, 0..300VAC, ±300 VDC PT100 and PT1000 2,3,4 wire, PT200, Ni120, Thermocouples: B, E, J, K, L, N, R, S, T, U										4..20 mA, 20..4 mA					•		•		≤ 0,1%			
Current measuring transducer with limit monitoring			Input										Output											
1510470000	ACT20P-CMT-10-AO-RCS	0..5/10 A										0..5 V, 0..10 V, -5...+5 V,					•		•					
1510540000	ACT20P-CMT-30-AO-RCS	0..20/25/30 A										-10...+10V, 0..20 mA,					•		•		≤ 0,5%			
1510440000	ACT20P-CMT-60-AO-RCS	0..40/50/60 A										4..20 mA, -20...+20 mA					•		•					
Network-compatible current measuring transducers			Input										Output											
1510240000	ACT20C-CMT-10-AO-RCS	0..5/10 A										0..5 V, 0..10 V, -5...+5 V,					•		•					
1510420000	ACT20C-CMT-60-AO-RCS	0..40/50/60 A										-10...+10V, 0..20 mA,					•		•		≤ 0,5%			
1510370000	ACT20C-GTW-100-MTCP-S	communication gateway for Ethernet current measuring transducer															•		•					

with display

Signal converters for hazardous area applications ACT20X

- SIL certification
- simple configuration via FDT software
- wide operating temperature range from -20 to + 60°C
- relay output for error alarm
- 1 and 2 channel versions
- customisable protection against mismatching
- international approvals



Order number	Type	Number of channels	Input							Output					Power		Comment
			0(4)..20mA passive	0(4)..20mA active	0(1)..5V	0(2)..10V	PT and Ni sensor	Thermocouples	0(4)..20mA passive	0(4)..20mA active	0(1)..5V	0(2)..10V	Splitter	Suitable for HART transparent communication	Auxiliary power 24VDC	Output loop powered	
8965430000	ACT20X-HAI-SA0-S	1	•	•					•				•	•		sensors (4-20) in Ex zone	
8965440000	ACT20X-2HAI-2SA0-S	2	•	•				•				•	•	•			
8965450000	ACT20X-SAI-HA0-S	1	•					•				•	•			analog control (4-20) in Ex zone	
8965460000	ACT20X-2SAI-2HA0-S	2	•					•				•	•				
8965470000	ACT20X-HTI-SA0-S	1	•				•	•					•	•		temperature sensors	
8965480000	ACT20X-2HTI-2SA0-S	2	•				•	•			•		•	•			
8965490000	ACT20X-HUI-SA0-S	1	•	•	•	•	•	•	•				•	•		universal	
1318220000	ACT20X-HUI-SA0-LP-S	1		•	•	•	•	•	•					•		universal - loop powered	
8965340000	ACT20X-HDI-SD0-RN0-S	1	digital input - NAMUR					relay 1NO					•		for digital signals (relay)		
8965370000	ACT20X-2HDI-2SD0-RN0-S	2	digital input - NAMUR					relay 1NO					•		for digital signals (relay)		
8965350000	ACT20X-HDI-SD0-RNC-S	1	digital input - NAMUR					relay 1NC					•		for digital signals (relay)		
8965380000	ACT20X-2HDI-2SD0-RNC-S	2	digital input - NAMUR					relay 1NC					•		for digital signals (relay)		
8965360000	ACT20X-HDI-SD0-S	1	digital input - NAMUR					NPN transistor					•		for digital signals (relay)		
8965390000	ACT20X-2HDI-2SD0-S	2	digital input - NAMUR					NPN transistor					•		for digital signals (relay)		
8965400000	ACT20X-SDI-HD0-L-S	1	digital signal					digital signal					•		for controlling valves in Ex zone IIC (≤ 35 mA)		
8965420000	ACT20X-2SDI-2HD0-S	2	digital signal					digital signal					•		for controlling valves in Ex zone IIC (≤ 35 mA)		
8965410000	ACT20X-SDI-HD0-H-S	1	digital signal					digital signal					•		for controlling valves in Ex zone IIB (≤ 60 mA)		
8978580000	CBX200 USB	USB interface adapter for configuring signal converters via FDT software															

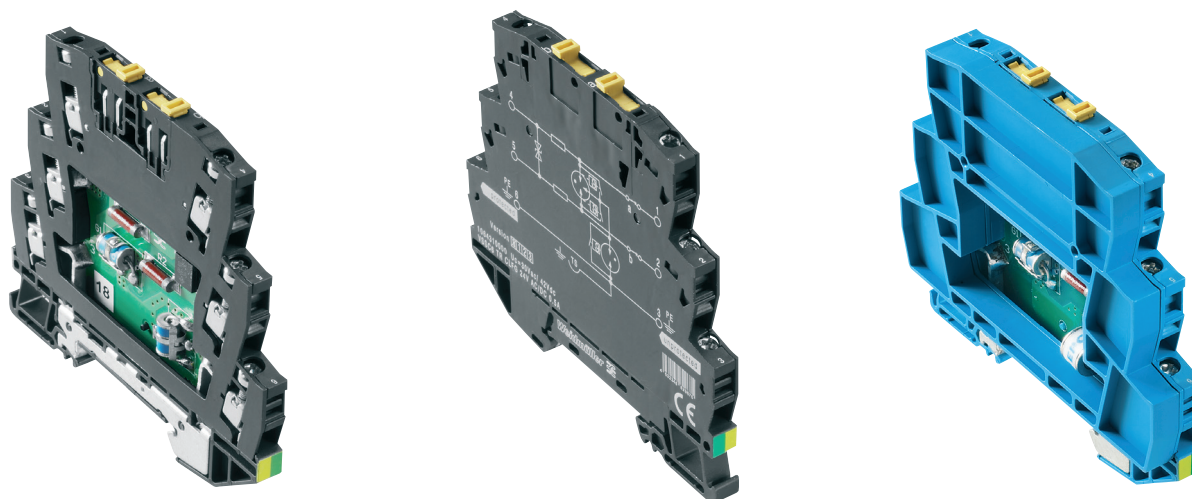
Ex zone

Other types of converters

Order number	Type	Number of channels	Input						Output				Power		Comment	
			0(4)..20mA passive	0(4)..20mA active	0(1)..5V	0(2)..10V	PT and Ni sensor	Thermocouples	Frequency	0(4)..20mA passive	0(4)..20mA active	0(1)..5V	0(2)..10V	Frequency		Auxiliary power 24VDC
8581180000	WAS4 PRO Freq	1							•					•		frequency conversion to analog signal
8939670000	WAS6 TTA	1	•	•	•	•	•	•	•	•	•	•		•		parameterized universal
8461470000	MCZ VFC 0-10V	1				•							•	•		converting analog signal to frequency
8461480000	MCZ CFC 0-20MA	1	•										•	•		converting analog signal to frequency
8461490000	MCZ CFC 4-20MA	1	•										•	•		converting analog signal to frequency
8389030000	AP MCZ1.5															endplate for MCZ
1067250000	ACT20P-BRIDGE-S						strain gauges			•		•		•		weighing

Signal surge protection

- increases the reliability of your process applications
- possibility of linking the signal path
- only 6.2 mm wide module
- quick PE contact to DIN rail
- possibility of using measuring with 2.3 mm test plug



Order number	Type	Usage
1064170000	VSSC6 CL 24VAC/DC 0.5A	For analog signal.
1064270000	VSSC6 CLFG24VAC/DC 0.5A	For analog signals, with integrated PE foot.
1064230000	VSSC6 TRCL24VAC/DC 0.5A	For analog signal, the possibility of linking the signal path.
1064310000	VSSC6 TRCLFG24VAC/DC 0.5A	For analog signal, FG, possibility of linking the signal path.
1066490000	VSSC6 TRCLFG24VAC/DC EX	For analog signal, FG, possibility of linking the signal path for signals from hazardous areas.
1063110000	AP VSSC6	End plate for overvoltage protections.

• complete range of converters and surge protection can be found in our product catalogs

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