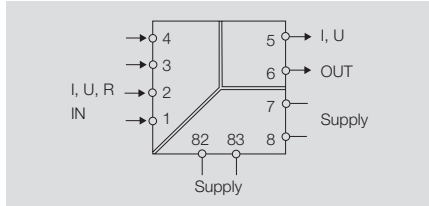


Universal converter

- Isolating and converting of temperature signals and DC signals
- Configuration using FDT/DTM software
- Power supply via the DIN-rail-bus
- 3 way isolation

ACT20M-UI-AO-S



Technical data

Input	
Sensor	
Potentiometer	
Resistance	
Input current	
Input voltage	
Sensor supply	
Output	
Output current	
Output voltage	
Load resistance, current	
Load resistance, voltage	
General data	
Supply voltage	
Ambient temperature (operational)	
Storage temperature	
Accuracy	
Temperature coefficient	
Insulation coordination	
Insulation voltage	
Rated voltage	
Pollution degree	
Overvoltage category	
Approvals	
Pending	
Dimensions	
Length x width x height	mm
Clamping range (nominal / min. / max.)	mm ²
Note	

Thermocouples: B, E, J, K, L, LR, N, R, S, T, U, W3, W5
RTD: PT100, PT1000, Ni100, Ni1000
2/3/4 conductor
10 Ω...10 kΩ
10 Ω...10 kΩ
0/4...20 mA
0/2...10 V
> 15 V DC at 20 mA
0/4...20 mA
0/2...10 V
< 600 Ω
> 10 k Ω
24 V DC ± 30 %
-25 °C...+70 °C
-40 °C...+85 °C
< 0.1 % span (DC, RTD)
< 0.2 % + CJ error (TC)
< 0.01 % /K
2.5 kV
300 V
2
II
cULus 61010-1, FM Div.2, ATEX zone 2, DNV, GL
114.3 x 6.1 x 112.5
2.5 / 0.5 / 2.5

Ordering data

Note	
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Type	Qty.	Order No.
ACT20M-UI-AO-S	1	1176030000

Accessories

Marker	
USB interface	
Note	

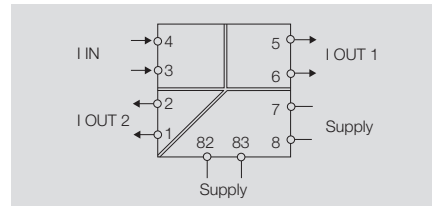
Type	Qty.	Order No.
MF 5/7.5 MC NEUTRAL		1877680000
CBX200 USB		8978580000

DIN rail bus, refer to accessories page

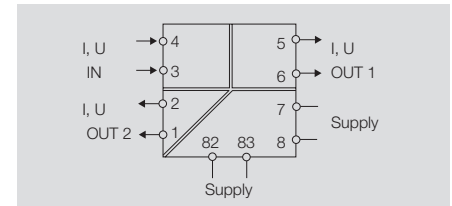
Signal splitter

- Isolating, converting and splitting DC signals
- Configured using DIP switch
- Power supply via the DIN-rail-bus
- 4 way isolation

ACT20M-CI-2CO-S



ACT20M-AI-2AO-S



Technical data

Input	
Input current	0/4...20 mA
Input voltage	-
Sensor supply	
-	
Output	
Output current	0/4...20 mA
Output voltage	-
Load resistance, current	
Load resistance, voltage	< 300 Ω > 10 k Ω
General data	
Supply voltage	24 V DC ± 30 %
Ambient temperature (operational)	-25 °C...+70 °C
Storage temperature	-40 °C...+85 °C
Accuracy	< 0.05 % of measurement range
Temperature coefficient	< 0.01 % /K
Cut-off-frequency	100 Hz
Insulation coordination	
Insulation voltage	2.5 kV
Rated voltage	300 V
Pollution degree	2
Overvoltage category	II
Approvals	
Pending	

Input		
Input current	0/4...20 mA	
Input voltage	-	
Sensor supply		
-		
Output		
Output current	0/4...20 mA	
Output voltage	-	
Load resistance, current		
Load resistance, voltage	< 300 Ω > 10 k Ω	
General data		
Supply voltage	24 V DC ± 30 %	
Ambient temperature (operational)	-25 °C...+70 °C	
Storage temperature	-40 °C...+85 °C	
Accuracy	< 0.05 % of measurement range	
Temperature coefficient	< 0.01 % /K	
Cut-off-frequency	100 Hz	
Insulation coordination		
Insulation voltage	2.5 kV	
Rated voltage	300 V	
Pollution degree	2	
Overvoltage category	II	
Approvals		
cULus 61010-1, FM Div.2, ATEX zone 2, DNV, GL		

Input		
Input current	0/4...20 mA	
Input voltage	0/2...10 V 0/1...5 V > 17 V DC at 20 mA	
Sensor supply		
-		
Output		
Output current	0/4...20 mA	
Output voltage	0/2...10 V 0/1...5 V < 300 Ω > 10 k Ω	
Load resistance, current		
Load resistance, voltage	< 300 Ω > 10 k Ω	
General data		
Supply voltage	24 V DC ± 30 %	
Ambient temperature (operational)	-25 °C...+70 °C	
Storage temperature	-40 °C...+85 °C	
Accuracy	< 0.05 % of measurement range	
Temperature coefficient	< 0.01 % /K	
Cut-off-frequency	100 Hz	
Insulation coordination		
Insulation voltage	2.5 kV	
Rated voltage	300 V	
Pollution degree	2	
Overvoltage category	II	
Approvals		
cULus 61010-1, FM Div.2, ATEX zone 2, DNV, GL		

Dimensions	
Length x width x height	mm 114.3 x 6.1 x 112.5
Clamping range (nominal / min. / max.)	mm ² 2.5 / 0.5 / 2.5
Note	

Dimensions		
Length x width x height	mm 114.3 x 6.1 x 112.5	
Clamping range (nominal / min. / max.)	mm ² 2.5 / 0.5 / 2.5	
Note		

Dimensions		
Length x width x height	mm 114.3 x 6.1 x 112.5	
Clamping range (nominal / min. / max.)	mm ² 2.5 / 0.5 / 2.5	
Note		

Ordering data

Type	
ACT20M-CI-2CO-S	
Qty.	
1	
Order No.	
1175990000	
Note	

Type	Qty.	Order No.
ACT20M-CI-2CO-S	1	1175990000
Note		

Type	
ACT20M-AI-2AO-S	
Qty.	
1	
Order No.	
1176020000	
Note	

Accessories

Type	
MF 5/7.5 MC NEUTRAL	
Qty.	
1	
Order No.	
1877680000	
Note	

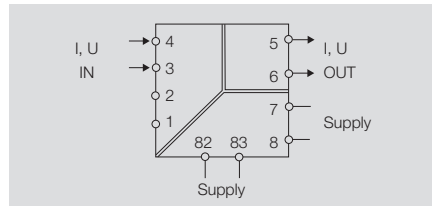
Type	Qty.	Order No.
MF 5/7.5 MC NEUTRAL	1	1877680000
Note		
DIN rail bus, refer to accessories page		

Type	Qty.	Order No.
MF 5/7.5 MC NEUTRAL	1	1877680000
Note		
DIN rail bus, refer to accessories page		

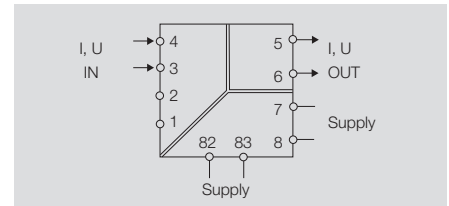
Universal DC converter

- Isolating and converting DC signals
- Configured using DIP switch
- Power supply via the DIN-rail-bus
- 3 way isolation

ACT20M-AI-AO-S



ACT20M-AI-AO-E-S



Technical data

Input	
Input current	0/4...20 mA
Input voltage	0/2...10 V
Sensor supply	0/1...5 V
Sensor supply	> 17 V DC at 20 mA
Output	
Output current	0/4...20 mA
Output voltage	0/2...10 V
Load resistance, current	0/1...5 V
Load resistance, voltage	< 600 Ω
	> 10 k Ω
General data	
Supply voltage	24 V DC ± 30 %
Ambient temperature (operational)	-25 °C...+70 °C
Storage temperature	-40 °C...+85 °C
Accuracy	< 0.05 % of measurement range
Temperature coefficient	< 0.01 % /K
Cut-off-frequency	100 Hz
Insulation coordination	
Insulation voltage	2.5 kV
Rated voltage	300 V
Pollution degree	2
Overvoltage category	II
Approvals	
Pending	cULus 61010-1, FM Div.2, ATEX zone 2, DNV, GL

Input current	0/4...20 mA
Input voltage	0/2...10 V
Sensor supply	0/1...5 V
Sensor supply	> 17 V DC at 20 mA
Output current	0/4...20 mA
Output voltage	0/2...10 V
Load resistance, current	0/1...5 V
Load resistance, voltage	< 600 Ω
	> 10 k Ω
Supply voltage	24 V DC ± 30 %
Ambient temperature (operational)	-25 °C...+70 °C
Storage temperature	-40 °C...+85 °C
Accuracy	< 0.05 % of measurement range
Temperature coefficient	< 0.01 % /K
Cut-off-frequency	100 Hz
Insulation voltage	2.5 kV
Rated voltage	300 V
Pollution degree	2
Overvoltage category	II
Approvals	cULus 61010-1, FM Div.2, ATEX zone 2, DNV, GL

Input current	0/4...20 mA
Input voltage	0/2...10 V
Sensor supply	0/1...5 V
Sensor supply	-
Output current	0/4...20 mA
Output voltage	0/2...10 V
Load resistance, current	0/1...5 V
Load resistance, voltage	< 600 Ω
	> 10 k Ω
Supply voltage	24 V DC ± 30 %
Ambient temperature (operational)	0 °C...+70 °C
Storage temperature	-40 °C...+85 °C
Accuracy	< 0.2 % of measurement range
Temperature coefficient	< 0.015 % /K
Cut-off-frequency	100 Hz
Insulation voltage	2.5 kV
Rated voltage	300 V
Pollution degree	2
Overvoltage category	II
Approvals	cULus 61010-1, DNV, GL

Dimensions	
Length x width x height	mm 114.3 x 6.1 x 112.5
Clamping range (nominal / min. / max.)	mm ² 2.5 / 0.5 / 2.5
Note	

Length x width x height	mm 114.3 x 6.1 x 112.5
Clamping range (nominal / min. / max.)	mm ² 2.5 / 0.5 / 2.5
Note	

Length x width x height	mm 114.3 x 6.1 x 112.5
Clamping range (nominal / min. / max.)	mm ² 2.5 / 0.5 / 2.5
Note	

Ordering data

Note	
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Type	Qty.	Order No.
ACT20M-AI-AO-S	1	117600000

Type	Qty.	Order No.
ACT20M-AI-AO-E-S	1	117601000

Accessories

Note	
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Type	Qty.	Order No.
MF 5/7.5 MC NEUTRAL		1877680000

DIN rail bus, refer to accessories page

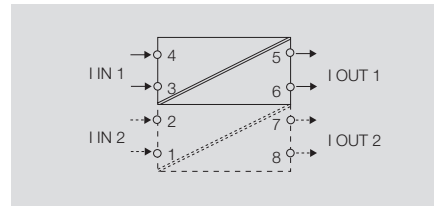
Type	Qty.	Order No.
MF 5/7.5 MC NEUTRAL		1877680000

DIN rail bus, refer to accessories page

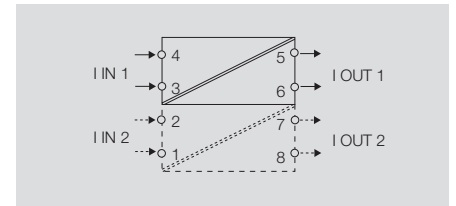
Passive isolator

- Isolation of DC signals without a separate power supply
- Supplied with power from the input measuring circuit
- Available as either single channel or double channel version
- 2 way isolation

ACT20M-CI-CO-ILP-S



ACT20M-CI-CO-OLP-S



Technical data

Input	
Input current	0/4...20 mA
Output	
Output current	0/4...20 mA
Load resistance, current	< 600 Ω
General data	
Voltage drop	≤ 1.2 V
Ambient temperature (operational)	-25 °C...+70 °C
Storage temperature	-40 °C...+85 °C
Accuracy	< 0.1 % of measurement range
Temperature coefficient	< 0.01 % /K
Cut-off-frequency	100 Hz
Insulation coordination	
Insulation voltage	2.5 kV
Rated voltage	300 V
Pollution degree	2
Overvoltage category	II
Approvals	
Pending	cULus 61010-1, FM Div.2, ATEX zone 2, DNV, GL

Input current	0/4...20 mA
Output current	0/4...20 mA
Load resistance, current	< 600 Ω
Voltage drop	≤ 2.5 V
Ambient temperature (operational)	-25 °C...+70 °C
Storage temperature	-40 °C...+85 °C
Accuracy	< 0.1 % of measurement range
Temperature coefficient	< 0.01 % /K
Cut-off-frequency	100 Hz
Insulation voltage	2.5 kV
Rated voltage	300 V
Pollution degree	2
Overvoltage category	II
Approvals	cULus 61010-1, FM Div.2, ATEX zone 2, DNV, GL

Input current	0/4...20 mA
Output current	0/4...20 mA
Load resistance, current	< 600 Ω
Voltage drop	≤ 2.5 V
Ambient temperature (operational)	-25 °C...+70 °C
Storage temperature	-40 °C...+85 °C
Accuracy	< 0.1 % of measurement range
Temperature coefficient	< 0.01 % /K
Cut-off-frequency	100 Hz
Insulation voltage	2.5 kV
Rated voltage	300 V
Pollution degree	2
Overvoltage category	II
Approvals	cULus 61010-1, FM Div.2, ATEX zone 2, DNV, GL

Dimensions	
Length x width x height	mm 114.3 x 6.1 x 112.5
Clamping range (nominal / min. / max.)	mm ² 2.5 / 0.5 / 2.5
Note	

Length x width x height	mm 114.3 x 6.1 x 112.5
Clamping range (nominal / min. / max.)	mm ² 2.5 / 0.5 / 2.5
Note	

Length x width x height	mm 114.3 x 6.1 x 112.5
Clamping range (nominal / min. / max.)	mm ² 2.5 / 0.5 / 2.5
Note	

Ordering data

Single-channel version	ACT20M CI-CO-ILP-S	1	1176070000
Double-channel version	ACT20M 2CI-2CO-ILP-S	1	1176080000
Note			

Type	Qty.	Order No.
ACT20M CI-CO-ILP-S	1	1176070000
ACT20M 2CI-2CO-ILP-S	1	1176080000
Note		

Type	Qty.	Order No.
ACT20M- CI- CO-OLP-S	1	1176040000
ACT20M-2CI-2CO-OLP-S	1	1176050000
Note		

Accessories

Marker	MF 5/7.5 MC NEUTRAL	1877680000
Note		

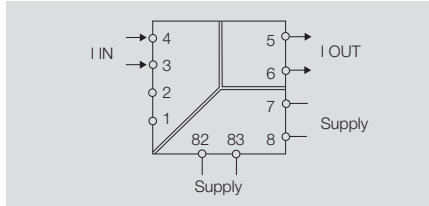
Type	Qty.	Order No.
MF 5/7.5 MC NEUTRAL		1877680000
Note		

Type	Qty.	Order No.
MF 5/7.5 MC NEUTRAL		1877680000
Note		

DC isolator

- Isolating DC signals
- Power supply via the DIN-rail-bus
- 3 way isolation

ACT20M-CI-CO-S



Technical data

Input	
Input current	0/4...20 mA
Output	
Output current	0/4...20 mA
Load resistance, current	< 600 Ω
General data	
Supply voltage	24 V DC ± 30 %
Ambient temperature (operational)	-25 °C...+70 °C
Storage temperature	-40 °C...+85 °C
Accuracy	< 0.05 % of measurement range
Temperature coefficient	< 0.01 % span/K
Cut-off-frequency	100 Hz
Insulation coordination	
Insulation voltage	2.5 kV
Rated voltage	300 V
Pollution degree	2
Overvoltage category	II
Approvals	
Pending	cULus 61010-1, FM Div.2, ATEX zone 2, DNV, GL

Dimensions	
Length x width x height	mm 114.3 x 6.1 x 112.5 mm
Clamping range (nominal / min. / max.)	mm ² 2.5 / 0.5 / 2.5 mm ²
Note	

Ordering data

Type	Qty.	Order No.
ACT20M-CI-CO-S	1	1175980000
Note		

Accessories

Type	Qty.	Order No.
MF 5/7.5 MC NEUTRAL		1877680000
Note		
DIN rail bus, refer to accessories page		

Rail bus accessories

Preliminary product data!

CH20M BUS-PROFIL TS35x7.5/1000

Support section for bus PCB



- Support section for TS35 x 7.5
- Length: 250, 500 or 750 mm

Ordering data

Type	Qty.	Order No.
CH20M BUS-PROFIL TS35x7.5/250	10	1248150000
CH20M BUS-PROFIL TS35x7.5/500	10	1248160000
CH20M BUS-PROFIL TS35x7.5/750	5	1248170000

CH20M BUS-PROFIL TS35x15/1000

Support section for bus PCB



- Support section for TS35 x 15
- Length: 250, 500 or 750 mm

Ordering data

Type	Qty.	Order No.
CH20M BUS-PROFIL TS35x15/250	5	1248180000
CH20M BUS-PROFIL TS35x15/500	5	1248190000
CH20M BUS-PROFIL TS35x15/750	5	1248210000

CH20M BUS 4.50/05 AU/1000

Bus PCB



- Bus PCB for use on TS35 x 7.5 and TS 35 x 15
- Length: 250, 500 or 750 mm
- Five conductor paths, gold plated
- Electrical rating: 63 V AC, 5 A/conductor path

Ordering data

Type	Qty.	Order No.
CH20M BUS 4.50/05 AU/250	10	1248220000
CH20M BUS 4.50/05 AU/500	10	1248230000
CH20M BUS 4.50/05 AU/750	5	1248240000

CH20M BUS-ADP TS35/1000

Cover plate



- Cover plate for rail bus
- Length: 250, 500 or 750 mm

Ordering data

Type	Qty.	Order No.
CH20M BUS-ADP TS35/250	10	1248250000
CH20M BUS-ADP TS35/500	10	1248260000
CH20M BUS-ADP TS35/750	5	1248270000

CH20M BUS-AP LI TS35x7.5 & 15

End plate



- End plate for rail bus
- Fits on TS35 x 7.5 and TS 35 x 15
- left

Ordering data

Type	Qty.	Order No.
CH20M BUS-AP LI TS35x7.5 & 15	50	1193160000

CH20M BUS-AP RE TS35x7.5 & 15

End plate



- End plate for rail bus
- Fits on TS35 x 7.5 and TS 35 x 15
- right

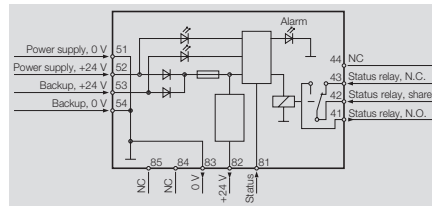
Ordering data

Type	Qty.	Order No.
CH20M BUS-AP RE TS35x7.5 & 15	50	1193170000

ACT20 power feed module

- Distributes the voltage supply on the busbar
- Compatible with Weidmüller's CH20 rail bus
- Optional backup supply connection
- Approved for installation in Ex Zone 2 /Div. 2
- Monitors the supply voltage
- Alarm alerts via the status relay

ACT20-Feed-In-PRO-S



Technical data

Input	
Power supply	21.6...26.4 V DC
Backup power supply	21.6...26.4 V DC
Trigger level for the power supply	Fault < 21 V DC
Output, power supply	
Output voltage	Input voltage -0.5 V DC @ 4 A
Output power	max. 96 W
Output current	max. 4 A
Output, status relay in safe zone	
Max. voltage	250 AC / 30 V DC
Max. current	2 A AC / 2 A DC
Max. AC power	500 VA / 60 W
General data	
Efficiency degree	> 97.9 %
Ambient temperature	-20...+60 °C
Storage temperature	-20...+85 °C
Power consumption	< 2 W
Protection degree	IP20
Weight	140 g
Humidity	< 95 %, no condensation
Approvals	cULus, cULus EX, ATEX, IECEx, DNV*, GOST*, CE

Dimensions	
Clamping range (nominal / min. / max.)	mm
Length x width x height	mm ²
Note	

Screw connection	
	2.5 / 0.5 / 2.5
	119.2 / 22.5 / 113.6
Note	* applied for

Ordering data

Note	
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Type	Qty.	Order No.
ACT20-Feed-In-PRO-S	1	8965500000

Accessories

Note	
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