

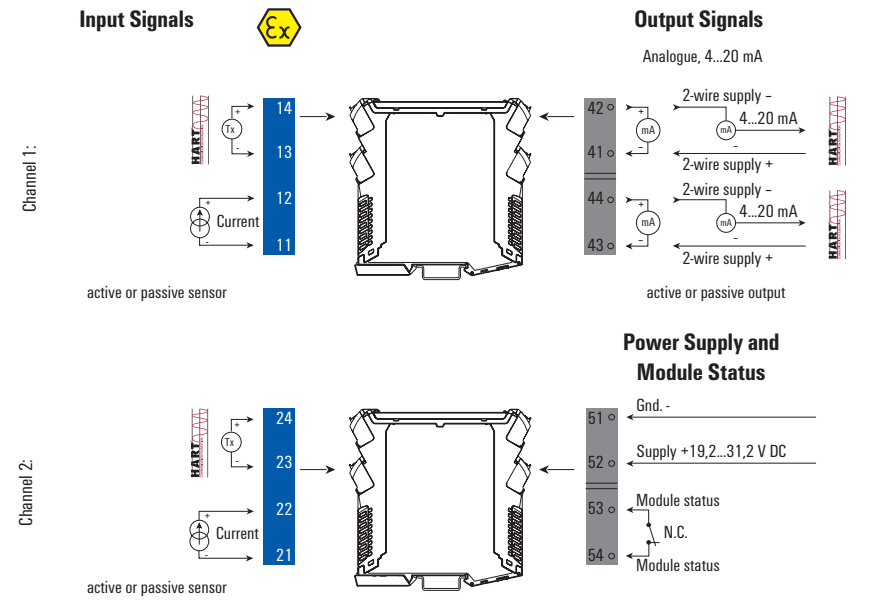
Supply isolator

Supply isolator, HART® transparent

The ACT20X-HAI-SAO current supply isolator is a HART®-protocol transparent signal isolator for analogue input signals from Ex zone 0. It provides an analogue signal for the safe zone on the output side. It is available in a single-channel or double-channel version.

EX area Zone 0, 1, 2, 20, 21, 22

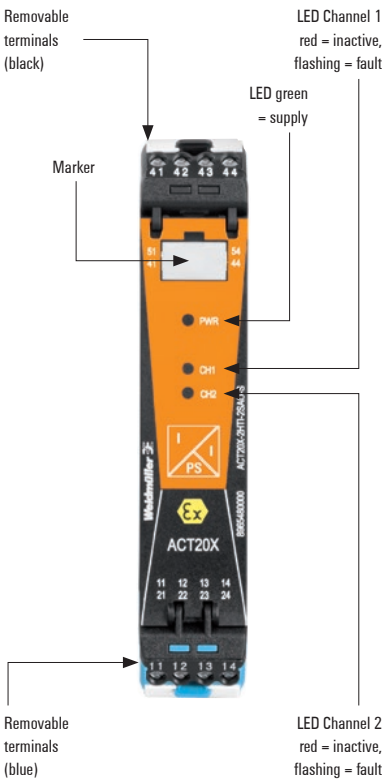
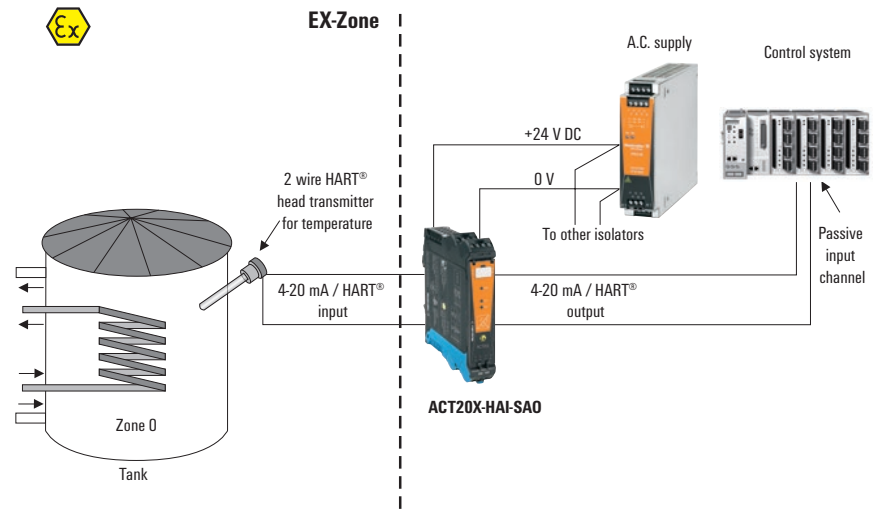
Safe area Zone 2 / FM Class 1, Division 2



Ex label (excerpt)

|                                 |                                     |            |                                   |
|---------------------------------|-------------------------------------|------------|-----------------------------------|
| <b>ATEX</b>                     | <b>FM</b>                           | $U_o/U_i$  | 0 V / 30 V                        |
| II 3 G Ex nA nC IIC T4 Gc       | Installation in CL I DIV2 GP A-D T4 | $I_o/I_i$  | 0 mA / 120 mA                     |
| II (1) G [Ex ia Ga] IIC/IIB/IIA | KI. HII ABT 1/2 GP A-G or           | $P_o/P_i$  | 0 mW / 0,85 W                     |
| II (1) D [Ex ia Da] IIC         | KI. I Zn2 AEx/Ex nA nC [ia] IIC T4  | $L_i$      | 0 $\mu$ H                         |
|                                 | Example:                            | $C_i$      | 2 nF                              |
| <b>IECEx</b>                    | ATEX version,                       | <b>IIC</b> | $C_o = 0,08 \mu$ F, $L_o = 3$ mH  |
| Ex nA nC IIC T4 Gc              | Ex input, External Current Source:  | <b>IIB</b> | $C_o = 0,6 \mu$ F, $L_o = 12$ mH  |
| [Ex ia Ga] IIC/IIB/IIA          | (More details in ATEX certificate)  | <b>IIA</b> | $C_o = 2,15 \mu$ F, $L_o = 25$ mH |

Application example:  
Measuring temperature with a head transmitter, signal transmission with HART®



Supply isolator

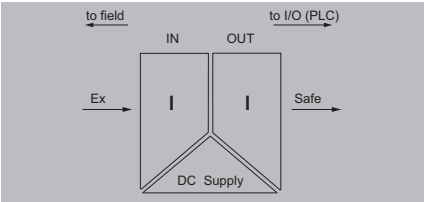
Intrinsically safe signal converters - ACT20X

B

Supply isolator, HART® transparent

- Converts analogue signals from Ex zone 0 into analogue output signals for safe zones.
- Active and passive current inputs/outputs
- HART® - transparent
- PC configuration with FDT/DTM software, download at [www.weidmueller.com](http://www.weidmueller.com)
- Relay output for failure alarm
- 2-channel module, can also be used as a signal splitter

ACT20X-HAI-SA0 / 2HAI-2SA0



Technical data

| Input                                     |  |
|-------------------------------------------|--|
| Input current                             |  |
| Sensor supply                             |  |
| Residual ripple (current loop)            |  |
| Output analogue                           |  |
| Output current                            |  |
| Output signal limit                       |  |
| Load impedance current                    |  |
| Accuracy                                  |  |
| Step response time                        |  |
| Cut-off frequency (-3 dB)                 |  |
| Alarm output                              |  |
| Type                                      |  |
| Nominal switching voltage                 |  |
| Continuous current                        |  |
| Power rating                              |  |
| General data                              |  |
| Voltage supply                            |  |
| Power consumption                         |  |
| Ambient temperature / Storage temperature |  |
| Approvals                                 |  |
| Approvals                                 |  |
| Insulation coordination                   |  |
| Insulation voltage                        |  |
| Rated voltage                             |  |
| EMC standards                             |  |

|                                                                 |
|-----------------------------------------------------------------|
| 4...20mA                                                        |
| > 16 V DC                                                       |
| <7.5 mV <sub>eff</sub>                                          |
| 4...20 mA                                                       |
| <28 mA                                                          |
| ≤ 600 Ω                                                         |
| <0.1% span                                                      |
| ≤ 5 ms                                                          |
| Status relay, 1 NC (voltage-free)                               |
| ≤ 125 V AC / 110 V DC (safe area)                               |
| ≤ 32 V AC / 32 V DC (zone 2)                                    |
| ≤ 0.5 A AC / 0.3 A DC (safe zone), ≤ 0,5 A AC / 1 A DC (zone 2) |
| ≤ 62.5 VA / 32 W (safe area)                                    |
| ≤ 16 VA / 32 W (Zone 2)                                         |
| 19.2...31.2 V DC                                                |
| ≤ 1.0 W                                                         |
| -20 °C...60 °C / -20 °C...85 °C                                 |
| CE; cULus; DEKRAATEX; DETNORVER; FMEX; FUSAFETY; IECXDEK        |
| 2.6 kV (input / output)                                         |
| 300 V                                                           |
| EN 61326-1                                                      |

| Dimensions                             |     |
|----------------------------------------|-----|
| Clamping range (nominal / min. / max.) | mm² |
| Depth x width x height                 | mm  |
| Note                                   |     |

| Screw connection     | PUSH IN              |
|----------------------|----------------------|
| 2.5 / 0.25 / 2.5     |                      |
| 113.6 / 22.5 / 119.2 | 114.6 / 22.5 / 127.3 |

Ordering data

| 1-channel version |                    |
|-------------------|--------------------|
|                   | Screw connection   |
|                   | PUSH IN connection |
| 2-channel version |                    |
|                   | Screw connection   |
|                   | PUSH IN connection |

| Type               | Qty. | Order No.  |
|--------------------|------|------------|
| ACT20X-HAI-SA0-S   | 1    | 8965430000 |
| ACT20X-HAI-SA0-P   | 1    | 2456140000 |
| ACT20X-2HAI-2SA0-S | 1    | 8965440000 |
| ACT20X-2HAI-2SA0-P | 1    | 2456150000 |

| Note |
|------|
|------|

|                                               |
|-----------------------------------------------|
| CBX200 USB configuration adapter - 8978580000 |
|-----------------------------------------------|

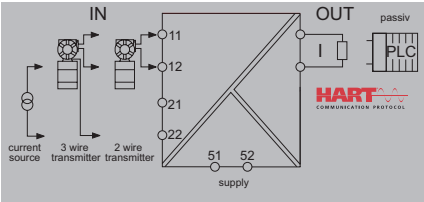
3024800000

Supply isolator

- Isolation of DC- signals
- Passive transmitter or active current input
- 3-way isolation
- HART® - transparent



ACT20P-CI-CO



Technical data

| Input                     |
|---------------------------|
| Input signal              |
| Input current             |
| Voltage drop              |
| Sensor supply             |
| Output                    |
| Output current            |
| Load impedance current    |
| General data              |
| Configuration             |
| Voltage supply            |
| Accuracy                  |
| Step response time        |
| Current consumption       |
| Temperature coefficient   |
| Insulation coordination   |
| EMC standards             |
| Insulation voltage        |
| Test voltage              |
| Impulse withstand voltage |
| Pollution degree          |
| Overvoltage category      |

|                                                                                        |
|----------------------------------------------------------------------------------------|
| current source, HART® signal bidirectional                                             |
| 0...20 mA, 4...20mA                                                                    |
| ≤ 1 V                                                                                  |
| > 17 V DC at 20 mA                                                                     |
| 0...20 mA (if input: 0...20 mA), 4...20 mA (if input: 4...20 mA), HART® digital signal |
| ≤ 550 Ω                                                                                |
| none                                                                                   |
| 20...30 V DC                                                                           |
| <0.1 % of end value                                                                    |
| ≤ 0,5 ms                                                                               |
| ≤60 mA (24V power supply, 20mA output)                                                 |
| 80 ppm/K                                                                               |
| EN 61326-1, EN 61000-6-2, EN 61000-6-4                                                 |
| 2 kV inputs / outputs / power supply                                                   |
| 0.3 kV                                                                                 |
| 4 kV (1.2/50 µs)                                                                       |
| 2                                                                                      |
| III                                                                                    |

| Dimensions                             |     |
|----------------------------------------|-----|
| Clamping range (nominal / min. / max.) | mm² |
| Depth x width x height                 | mm  |
| Note                                   |     |

| Screw connection     | PUSH IN              |
|----------------------|----------------------|
| 2.5 / 0.5 / 2.5      | 2.5 / 0.5 / 2.5      |
| 113.7 / 12.5 / 117.2 | 113.7 / 12.5 / 127.1 |

Ordering data

| Connection type                                     |
|-----------------------------------------------------|
| Screw connection without mounting rail bus supply   |
| PUSH IN connection without mounting rail bus supply |
| Screw connection with mounting rail bus supply      |
| PUSH IN connection with mounting rail bus supply    |

| Type             | Qty. | Order No.  |
|------------------|------|------------|
| ACT20P-CI-CO-S   | 1    | 7760054114 |
| ACT20P-CI-CO-P   | 1    | 2489680000 |
| ACT20P-CI-CO-P-S | 1    | 1506200000 |
| ACT20P-CI-CO-P-P | 1    | 2514620000 |

| Note |
|------|
|------|

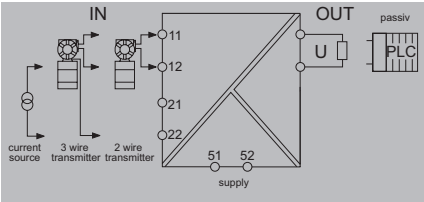
| Note |
|------|
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Supply isolator

Signal convertersSupply isolator with voltage output

- Passive 3-wire transmitter and active current input
- 3-way isolation
- Removable terminals
- Supply also possible via mounting rail bus

ACT20P-CI-VO



Technical data

| Input                     |                                                                |
|---------------------------|----------------------------------------------------------------|
| Input current             | 0...20 mA, 4...20mA                                            |
| Input signal              | 2-/3-wire transmitter, Current source                          |
| Number of inputs          | 1                                                              |
| Sensor supply             | > 17 V DC at 20 mA                                             |
| Output                    |                                                                |
| Number of outputs         | 1                                                              |
| Output voltage            | 0...10 V (if input: 0...20 mA), 2...10 V (if input: 4...20 mA) |
| load impedance voltage    | ≥ 600 kΩ                                                       |
| General data              |                                                                |
| Accuracy                  | ±0,1 % FSR max., 0,05 % FSR typ.                               |
| Configuration             | none                                                           |
| Current consumption       | ≤60 mA (24V power supply, 20mA output)                         |
| Step response time        | ≤ 0,5 ms                                                       |
| Temperature coefficient   | 80 ppm/K                                                       |
| Voltage supply            | 20...30 V DC                                                   |
| Insulation coordination   |                                                                |
| EMC standards             | EN 61326-1, EN 61000-6-2, EN 61000-6-4                         |
| Galvanic isolation        | 3-way isolator, between input / output / supply                |
| Impulse withstand voltage | 4 kV (1.2/50 µs)                                               |
| Insulation voltage        | 2 kV (Input /Output), 1 min, 50 Hz                             |
| Test voltage              | 0.3 kV                                                         |
| Overvoltage category      | III                                                            |
| Standards                 | EN 61010-1, UL 61010-1                                         |
| Pollution degree          | 2                                                              |

| 0...20 mA, 4...20mA                                            |  |
|----------------------------------------------------------------|--|
| 2-/3-wire transmitter, Current source                          |  |
| 1                                                              |  |
| > 17 V DC at 20 mA                                             |  |
| 1                                                              |  |
| 0...10 V (if input: 0...20 mA), 2...10 V (if input: 4...20 mA) |  |
| ≥ 600 kΩ                                                       |  |
| ±0,1 % FSR max., 0,05 % FSR typ.                               |  |
| none                                                           |  |
| ≤60 mA (24V power supply, 20mA output)                         |  |
| ≤ 0,5 ms                                                       |  |
| 80 ppm/K                                                       |  |
| 20...30 V DC                                                   |  |
| EN 61326-1, EN 61000-6-2, EN 61000-6-4                         |  |
| 3-way isolator, between input / output / supply                |  |
| 4 kV (1.2/50 µs)                                               |  |
| 2 kV (Input /Output), 1 min, 50 Hz                             |  |
| 0.3 kV                                                         |  |
| III                                                            |  |
| EN 61010-1, UL 61010-1                                         |  |
| 2                                                              |  |

| Dimensions                             |     |
|----------------------------------------|-----|
| Clamping range (nominal / min. / max.) | mm² |
| Depth / Width / Height                 | mm  |
| Note                                   |     |

| Screw connection     | PUSH IN              |
|----------------------|----------------------|
| 0.6 / 0.5 / 2.5      | 2.5 / 0.5 / 2.5      |
| 113.7 / 12.5 / 117.2 | 113.7 / 12.5 / 127.1 |

Ordering data

| Connection type                                     |
|-----------------------------------------------------|
| Screw connection without mounting rail bus supply   |
| PUSH IN connection without mounting rail bus supply |
| Screw connection with mounting rail bus supply      |
| PUSH IN connection with mounting rail bus supply    |

| Type             | Qty. | Order No.  |
|------------------|------|------------|
| ACT20P-CI-VO-S   | 1    | 1540010000 |
| ACT20P-CI-VO-P   | 1    | 2489740000 |
| ACT20P-CI-VO-P-S | 1    | 1537750000 |
| ACT20P-CI-VO-P-P | 1    | 2514640000 |

| Note |
|------|
|------|

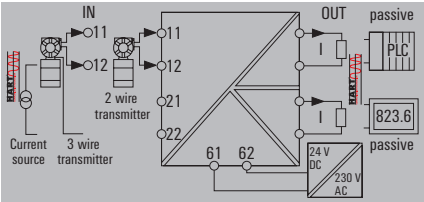
| Note |
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Supply isolator with splitter function

- Removable terminals
- Passive transmitter or active current input
- 3-way isolation
- HART® - transparent



ACT20P-CI-2CO



Technical data

| Input                     |
|---------------------------|
| Sensor supply             |
|                           |
| Input signal              |
| Input current             |
| Voltage drop              |
| Output                    |
| Output current            |
|                           |
| Load impedance current    |
| General data              |
| Configuration             |
| Voltage supply            |
| Accuracy                  |
| Step response time        |
| Temperature coefficient   |
| Insulation coordination   |
| EMC standards             |
| Insulation voltage        |
| Test voltage              |
| Impulse withstand voltage |
| Pollution degree          |
| Overvoltage category      |

|                                                                                                         |
|---------------------------------------------------------------------------------------------------------|
| > 17 V DC at 20 mA                                                                                      |
| HART® signal bidirectional                                                                              |
| 0...20 mA, 4...20mA                                                                                     |
| ca. 3.8 V @ R <sub>load</sub> = 0 Ω; ca. 15 V @ R <sub>load</sub> = 600 Ω; (I <sub>input</sub> = 20 mA) |
| 0...20 mA (if input: 0...20 mA), 4...20 mA (if input: 4...20 mA), HART® digital signal                  |
| <300 Ω                                                                                                  |
| none                                                                                                    |
| 20...30 V DC                                                                                            |
| <0.1 % of end value                                                                                     |
| ≤ 0,5 ms                                                                                                |
| 80 ppm/K                                                                                                |
| EN 61326-1, EN 61000-6-2, EN 61000-6-4                                                                  |
| 2 kV inputs / outputs / power supply                                                                    |
| 0.3 kV                                                                                                  |
| 4 kV (1.2/50 µs)                                                                                        |
| 2                                                                                                       |
| III                                                                                                     |

| Dimensions                             |     |
|----------------------------------------|-----|
| Clamping range (nominal / min. / max.) | mm² |
| Depth x width x height                 | mm  |
| Note                                   |     |

| Screw connection     | PUSH IN              |
|----------------------|----------------------|
| 2.5 / 0.5 / 2.5      | 2.5 / 0.5 / 2.5      |
| 113.7 / 12.5 / 117.2 | 113.7 / 12.5 / 127.1 |

Ordering data

| Connection type                                     |
|-----------------------------------------------------|
| Screw connection without mounting rail bus supply   |
| PUSH IN connection without mounting rail bus supply |
| Screw connection with mounting rail bus supply      |
| PUSH IN connection with mounting rail bus supply    |

| Type              | Qty. | Order No.  |
|-------------------|------|------------|
| ACT20P-CI-2CO-S   | 1    | 7760054115 |
| ACT20P-CI-2CO-P   | 1    | 2489710000 |
| ACT20P-CI-2CO-P-S | 1    | 1506220000 |
| ACT20P-CI-2CO-P-P | 1    | 2514630000 |

| Note |
|------|
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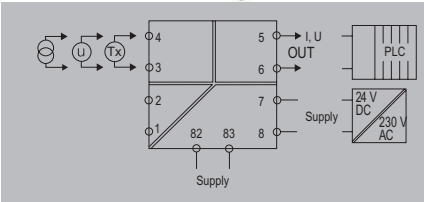
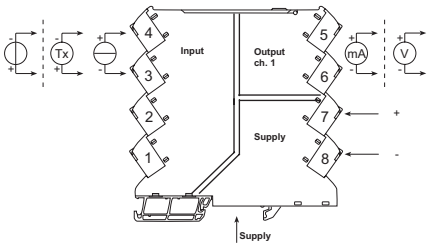
| Note |
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Supply isolator

Supply isolator with standard signals

- Input for current/voltage source
- Sensor supply
- Output for current/voltage source
- 3-way isolation
- Configuration via DIP switches
- Power supply via the mounting rail bus

ACT20M-AI-AO



Technical data

| Input                       |  |
|-----------------------------|--|
| Sensor                      |  |
| Input current               |  |
| Input voltage               |  |
| Sensor supply               |  |
| Input resistance, voltage   |  |
| Voltage drop, current input |  |
| Output                      |  |
| Output current              |  |
| Output voltage              |  |
| Load impedance current      |  |
| load impedance voltage      |  |
| General data                |  |
| Configuration               |  |
| Voltage supply              |  |
| Ambient temperature         |  |
| Accuracy                    |  |
| Temperature coefficient     |  |
| Cut-off frequency (-3 dB)   |  |
| Power consumption, typ.     |  |
| Power consumption, max.     |  |
| Step response time          |  |
| Insulation coordination     |  |
| Insulation voltage          |  |
| Rated voltage               |  |
| EMC standards               |  |
| Pollution degree            |  |
| Overvoltage category        |  |
| Approvals                   |  |

|                                                                               |
|-------------------------------------------------------------------------------|
| Voltage source, Current source, 2-wire transmitter (without own power supply) |
| configurable, 0...20 mA, 4...20mA                                             |
| configurable, 0(2)...10 V, 0(1)...5 V                                         |
| > 17 V DC at 20 mA                                                            |
| >500 kΩ                                                                       |
| <1,5 V                                                                        |
| configurable, 0...20 mA, 4...20 mA                                            |
| configurable, 0(2)...10 V, 0(1)...5 V                                         |
| ≤ 600 Ω, @ max 23mA                                                           |
| ≥ 10 kΩ                                                                       |
| DIP switch                                                                    |
| 24 V DC ±30 % at terminal or via CH20M rail bus                               |
| -25 °C...70 °C                                                                |
| <0.05 % of measuring range                                                    |
| ≤ 0.01 % / °C                                                                 |
| 100 Hz                                                                        |
| 0.84 W                                                                        |
| 1.2 W                                                                         |
| ≤ 7 ms                                                                        |
| 2.5 kV <sub>eff</sub> /1 min.                                                 |
| 300 V <sub>eff</sub>                                                          |
| IEC 61326-1, NE 21                                                            |
| 2                                                                             |
| II                                                                            |
| CCCEX; CE; cULus; DETNORVER; FMEX; IECExKEM; KEMAATEX; UKEX                   |

Electrical connections

| Terminal | ACT20M-AI-AO-S |    |         |              |          |    |
|----------|----------------|----|---------|--------------|----------|----|
|          | Input          |    |         | Power supply | Output 1 |    |
|          | V              | mA | mA Loop |              | V        | mA |
| 1        |                |    |         |              |          |    |
| 2        |                |    |         |              |          |    |
| 3        | ■              | □  | ■       |              |          |    |
| 4        | □              | ■  | □       |              |          |    |
| 5        |                |    |         |              | ■        | ■  |
| 6        |                |    |         |              | □        | □  |
| 7        |                |    |         | ■            |          |    |
| 8        |                |    |         | □            |          |    |
| ■ = +    |                |    |         |              |          |    |
| □ = -    |                |    |         |              |          |    |

DIP switch settings

| Range            | Input |   |   |   | Output |   |   |   |   |    |
|------------------|-------|---|---|---|--------|---|---|---|---|----|
|                  | 1     | 2 | 3 | 4 | 5      | 6 | 7 | 8 | 9 | 10 |
| 0 ... 20 mA      | □     | □ | □ | □ | □      | □ |   |   |   |    |
| 4 ... 20 mA      | □     | ■ | □ | □ | ■      | □ |   |   |   |    |
| 0 ... 10 V       | ■     | □ | □ | ■ | □      | □ |   |   |   |    |
| 2 ... 10 V       | ■     | ■ | □ | ■ | ■      | □ |   |   |   |    |
| 0 ... 5 V        | ■     | □ | ■ | ■ | □      | ■ |   |   |   |    |
| 1 ... 5 V        | ■     | ■ | ■ | ■ | ■      | ■ |   |   |   |    |
| 0 ... 20 mA loop | ■     | □ | □ | □ |        |   |   |   |   |    |
| 4 ... 20 mA loop | ■     | □ | ■ | □ |        |   |   |   |   |    |
| ■ = on           |       |   |   |   |        |   |   |   |   |    |
| □ = off          |       |   |   |   |        |   |   |   |   |    |

| Dimensions                             |     |
|----------------------------------------|-----|
| Clamping range (nominal / min. / max.) | mm² |
| Depth x width x height                 | mm  |
| Note                                   |     |

| Screw connection                                         | PUSH IN             |
|----------------------------------------------------------|---------------------|
| 2.5 / 0.5 / 2.5                                          | 2.5 / 0.5 / 2.5     |
| 114.3 / 6.1 / 112.5                                      | 114.3 / 6.1 / 112.5 |
| Power supply optionally over the DIN mounting rail CH20M |                     |

Ordering data

| Type             | Qty. | Order No.  |
|------------------|------|------------|
| ACT20M-AI-AO-X-S | 1    | 2825050000 |
| ACT20M-AI-AO-X-P | 1    | 2825180000 |
| ACT20M-AI-AO-S   | 1    | 1176000000 |
| ACT20M-AI-AO-P   | 1    | 2825370000 |

| Note |
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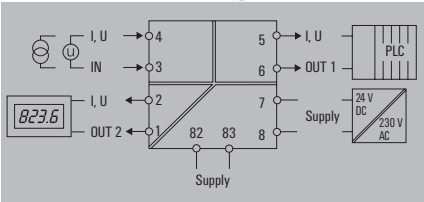
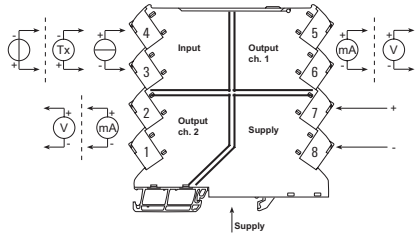
| Type             | Qty. | Order No.  |
|------------------|------|------------|
| ACT20M-AI-AO-X-S | 1    | 2825050000 |
| ACT20M-AI-AO-X-P | 1    | 2825180000 |
| ACT20M-AI-AO-S   | 1    | 1176000000 |
| ACT20M-AI-AO-P   | 1    | 2825370000 |

| Note |
|------|
|------|

Supply isolator with standard signals and splitter function

- Isolation, conversion and doubling of DC signals
- Configuration via DIP switches
- Supply possible via the mounting rail bus
- 4-way isolation

ACT20M-AI-2A0



Technical data

| Input                       |  |
|-----------------------------|--|
| Sensor                      |  |
|                             |  |
| Number of inputs            |  |
| Input current               |  |
| Input voltage               |  |
| Sensor supply               |  |
| Input resistance, voltage   |  |
| Voltage drop, current input |  |
| Output                      |  |
| Number of outputs           |  |
| Output current              |  |
| Output voltage              |  |
| Load impedance current      |  |
| load impedance voltage      |  |
| General data                |  |
| Configuration               |  |
| Voltage supply              |  |
| Ambient temperature         |  |
| Accuracy                    |  |
| Temperature coefficient     |  |
| Cut-off frequency (-3 dB)   |  |
| Power consumption, typ.     |  |
| Power consumption, max.     |  |
| Step response time          |  |
| Insulation coordination     |  |
| Insulation voltage          |  |
| Rated voltage               |  |
| EMC standards               |  |
| Pollution degree            |  |
| Overvoltage category        |  |
| Approvals                   |  |

| Input                                                                         |  |
|-------------------------------------------------------------------------------|--|
| Voltage source, Current source, 2-wire transmitter (without own power supply) |  |
| 1                                                                             |  |
| configurable, 0...20 mA, 4...20mA                                             |  |
| configurable, 0(2)...10 V, 0(1)...5 V                                         |  |
| 17...28 V DC (@ 20 mA)                                                        |  |
| 500 kΩ                                                                        |  |
| <1.5 V                                                                        |  |
| Output                                                                        |  |
| 2                                                                             |  |
| configurable, 0...20 mA, 4...20 mA                                            |  |
| configurable, 0(2)...10 V, 0(1)...5 V                                         |  |
| <300 Ω, per channel, @ max 23mA                                               |  |
| ≥ 10 kΩ                                                                       |  |
| General data                                                                  |  |
| DIP switch                                                                    |  |
| 24 V DC ±30 % at terminal or via CH20M rail bus                               |  |
| -25 °C...70 °C                                                                |  |
| <0.05 % of measuring range                                                    |  |
| ≤ 0.01 % / °C                                                                 |  |
| 100 Hz                                                                        |  |
| 0.84 W                                                                        |  |
| 1.2 W                                                                         |  |
| ≤ 7 ms                                                                        |  |
| Insulation coordination                                                       |  |
| 2.5 kV <sub>eff</sub> /1 min.                                                 |  |
| 300 V <sub>eff</sub>                                                          |  |
| IEC 61326-1, NE 21                                                            |  |
| 2                                                                             |  |
| II                                                                            |  |
| CE; cULus; DETNORVER; FMEX; IECExKEM; KEMAATEX; UKEX                          |  |

Electrical connections

| Terminal | ACT20M-AI-2A0-S                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     |
|----------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|          | Input                               |                                     |                                     | Power supply                        | Output 1                            |                                     | Output 2                            |                                     |
|          | V                                   | mA                                  | mA Loop                             |                                     | V                                   | mA                                  | V                                   | mA                                  |
| 1        |                                     |                                     |                                     |                                     |                                     |                                     | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2        |                                     |                                     |                                     |                                     |                                     |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     |                                     |
| 4        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |                                     |                                     |                                     |                                     |
| 5        |                                     |                                     |                                     |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |
| 6        |                                     |                                     |                                     |                                     | <input type="checkbox"/>            | <input type="checkbox"/>            |                                     |                                     |
| 7        |                                     |                                     |                                     | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     |
| 8        |                                     |                                     |                                     | <input type="checkbox"/>            |                                     |                                     |                                     |                                     |
| ■ = +    |                                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     |
| □ = -    |                                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     |

DIP switch settings

| Range            | Input                               |                                     |                                     |                                     | Output 1                            |                                     |                                     | Output 2                            |                                     |                                     |
|------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|                  | 1                                   | 2                                   | 3                                   | 4                                   | 5                                   | 6                                   | 7                                   | 8                                   | 9                                   | 10                                  |
| 0 ... 20 mA      | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4 ... 20 mA      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 0 ... 10 V       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2 ... 10 V       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 0 ... 5 V        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 1 ... 5 V        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 0 ... 20 mA loop | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |                                     |                                     |                                     |                                     |                                     |                                     |
| 4 ... 20 mA loop | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |                                     |                                     |                                     |                                     |                                     |
| ■ = on           |                                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     |
| □ = off          |                                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     |

| Dimensions                             |     |
|----------------------------------------|-----|
| Clamping range (nominal / min. / max.) | mm² |
| Depth x width x height                 | mm  |
| Note                                   |     |

| Screw connection                                         | PUSH IN         |
|----------------------------------------------------------|-----------------|
| 2.5 / 0.5 / 2.5                                          | 2.5 / 0.5 / 2.5 |
| 114.3 / 6.1 / 112.5                                      |                 |
| Power supply optionally over the DIN mounting rail CH20M |                 |

Ordering data

| Type              | Qty. | Order No.  |
|-------------------|------|------------|
| ACT20M-AI-2A0-X-S | 1    | 2825030000 |
| ACT20M-AI-2A0-X-P | 1    | 2825160000 |
| ACT20M-AI-2A0-S   | 1    | 1176020000 |
| ACT20M-AI-2A0-P   | 1    | 2825350000 |

| Note |
|------|
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| Note |
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