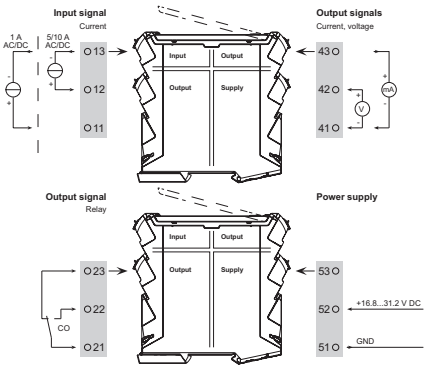
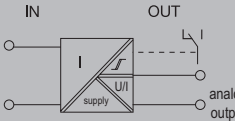


Current and voltage transformers

Current measuring transducers

- Measuring and monitoring AC/DC currents
- Input/output electrically isolated
- Input and output ranges are adjustable
- Measurement range extension via external current transformer
- Relay output for limit value alarm with switching threshold, delay, hysteresis

ACT20P-CML-10-AO-RC



Technical data

Input
Number of inputs
Input frequency
Input measurement range

Output (digital)
Alarm function

Rated switching current
Number of digital outputs
Type
Max. switching voltage, AC

Output (analogue)
Load resistance current
Load resistance voltage
Number of analogue outputs
Output current
Output voltage

General data
Accuracy
Configuration
Step response time
Power consumption, max.
Temperature coefficient
Voltage supply
Insulation coordination
EMC standards
Impulse withstand voltage
Galvanic isolation
Insulation voltage
Test voltage
Overvoltage category

Dimensions
Clamping range (nominal / min. / max.)
Depth / Width / Height
Note

Ordering data

Connection type
Screw connection
PUSH IN connection

Note

Accessories

Note

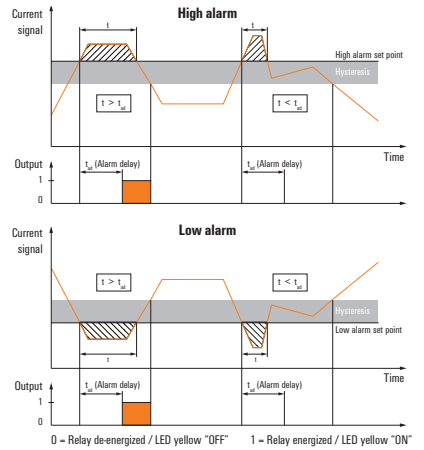
1
AC: 15...400 Hz (true root mean square)
configurable, 0...1/5/10 A AC (RMS) or DC, max. peak current $10 \times I_{input}$ (1 s), For DC current measurement (AA): Current direction display at the output (-/+ analog value)
Surge current, Under-current, Alarm limit setting: 2 - 105 %, Hysteresis 5% / 10%, Alarm delay: 0...10 s
2 A
1
Relay, 1 CO contact, normal / inverse adjustment
250 V
$\leq 600 \Omega$
$\geq 10 k\Omega$
1
Adjustable, 0...20 mA, 4...20 mA, -20...+20 mA
Adjustable, 0...10 V, 2...10 V, 0...5 V, 1...5 V, -5...+5 V, -10...+10 V
$\leq \pm 0.3 \% @ 1 A / 5 A, \leq \pm 0.6 \% @ 10 A$
DIP switch and potentiometer
$\leq 300 ms (RMS), \leq 60 ms (AA)$
2.2 W
$\leq \pm 100 ppm/K @ -25...+55^{\circ}C, \leq \pm 200 ppm/K @ +55...+70^{\circ}C$
16.8 V...31.2 V
EN 61326-1
6 kV (1.2/50 μs)
4-way isolator,, between input / output / supply / relay
4 kV _{eff} / 1 min.
4 kV
III

Screw connection	PUSH IN
1.5 / 0.5 / 2.5	2.5 / 0.5 / 2.5
113.6 / 17.5 / 119.2	114 / 17.5 / 127.1

Type	Qty.	Order No.
ACT20P-CML-10-AO-RC-S	1	2044850000
ACT20P-CML-10-AO-RC-P	1	2489910000

Note

Note



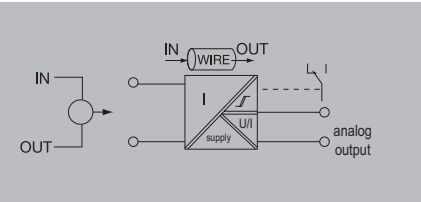
Current and voltage transformers

Current transformer with through-hole technology

- Measuring and monitoring of AC/DC current
- Input/output electrically isolated
- Input and output ranges are adjustable
- Contact-free through-hole technology
- Relay output for limit value alarm with switching threshold, delay, hysteresis



ACT20P-CMT



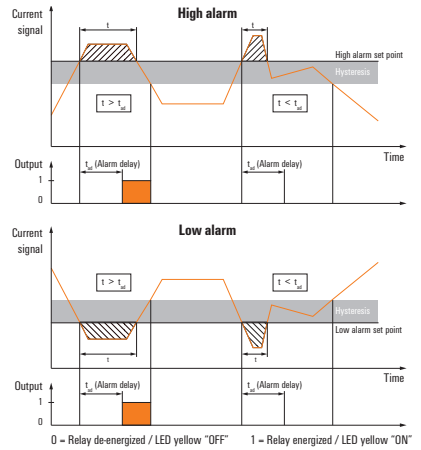
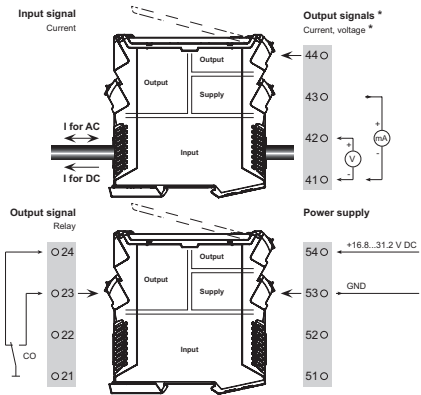
Technical data

Input	
Input measurement range	
Input signal	
Input frequency	
Output (analogue)	
Output voltage	
Output current	
Load resistance voltage	
Load resistance current	
Output (digital)	
Type	
Alarm function	
Rated switching current	
Max. switching voltage, AC	
General data	
Galvanic isolation	
Accuracy	
Configuration	
Step response time	
Temperature coefficient	
Voltage supply	
Insulation coordination	
Rated voltage	
Standards	
Impulse withstand voltage	
Test voltage	
Pollution degree	
Overvoltage category	
Dimensions	
Clamping range (nominal / min. / max.)	mm²
Depth / Width / Height	mm
Note	

Ordering data

Connection type		
Input measurement range 0...5/10 A	Screw connection	
Input measurement range 0...20/25/30 A	Screw connection	
Input measurement range 0...40/50/60 A	Screw connection	
Input measurement range: 0 to 40/50/60 A	Screw connection	
Input measurement range 0...5/10 A	PUSH IN connection	
Input measurement range 0...20/25/30 A	PUSH IN connection	
Input measurement range 0...40/50/60 A	PUSH IN connection	
Input measurement range: 0 to 40/50/60 A	PUSH IN connection	
Note		

configurable, 0...5/10 A AC (RMS) or DC, max. peak current $10 \times I_{\text{Input}}$ (1 s), max. peak current $2 \times I_{\text{Input}}$ (1 s) @ 5/10 A DC, For DC current measurement (AA): Current direction display at the output (-/+ analog value), max. peak current $2 \times I_{\text{Input}}$ (1 s)	
Current-carrying cable in feed-through hole	
AC: 15...700 Hz (true root mean square)	
Adjustable, 0...10 V, 2...10 V, 0...5 V, 1...5 V, -5...+5 V, -10...+10 V	
Adjustable, 0...20 mA, 4...20 mA, -20...+20 mA	
$\geq 10 \text{ k}\Omega$	
$\leq 600 \Omega$	
Relay, 1 CO contact, normal / inverse adjustment	
Surge current, Under-current, Alarm limit setting: 2 - 105 %, Hysteresis 5 % / 10 %, Alarm delay: 0...10 s	
6 A	
250 V	
4-way isolator,, between input / output / supply / relay	
<0.75 % FSR	
DIP switch and potentiometer	
$\leq 300 \text{ ms (RMS)}$, $\leq 60 \text{ ms (AA)}$	
$\leq \pm 100 \text{ ppm/K @ } -25...+55^\circ\text{C}$, $\leq \pm 200 \text{ ppm/K @ } +55...+70^\circ\text{C}$	
16.8 V...31.2 V	
300 V AC _{rms}	
EN 61010-2:201	
6.4 kV (1.2/50 μs)	
4 kV	
2	
III	
Screw connection	PUSH IN
1.5 / 0.5 / 2.5	2.5 / 0.5 / 2.5
113.6 / 22.5 / 119.2	114 / 22.8 / 127.1



DIP switch S1							
Current input range	1	2	3	4	5	6	7
0...5 A	1						
0...10 A		1					
0...20 A			1				
0...25 A				1			
0...30 A					1		
0...40 A						1	
0...50 A							1
0...60 A							
DIP switch S2							
Output range	1	2	3	4	5	6	7
0...10 V							
2...10 V							
0...5 V							
1...5 V							
-5...+5 V							
-10...+10 V							
0...20 mA							
4...20 mA							
-20...+20 mA							
Alarm relay action							
Alarm relay action	1	2	3	4	5	6	7
Energized							
De-energized							
Alarm hysteresis							
Alarm hysteresis	1	2	3	4	5	6	7
5 %							
10 %							
Alarm type							
Alarm type	1	2	3	4	5	6	7
High alarm							
Low alarm							
Measuring range monitoring							
Measuring range monitoring	1	2	3	4	5	6	7
No							
Yes							
Output error action							
Output error action	1	2	3	4	5	6	7
Upscale							
Downscale							
Transfer function							
Transfer function	1	2	3	4	5	6	7
Normal							
Inverse							

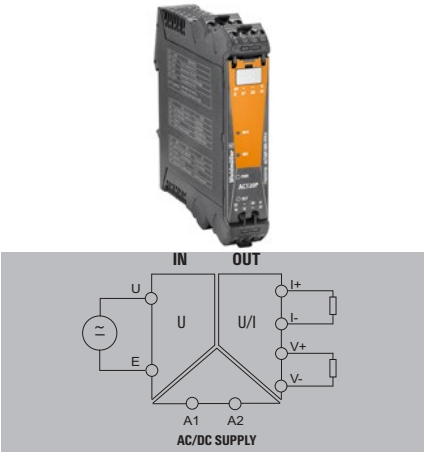
■ = ON
1) ACT20P-CMT-10-AD-RC-S
2) ACT20P-CMT-30-AD-RC-S
3) ACT20P-CMT-60-AD-RC-S, ACT20P-CMT-60-RC-S

Voltage transformer 1 phase

- Voltage measurement of single-phase network up to 500 V AC
- 10 input ranges can be selected
- AC/DC power supply



ACT20P-VM-AO



Technical data

Input	
Input resistance	
Input signal	
Input voltage	
Number of inputs	
Output	
Load impedance current	
Output current	
Output voltage	
load impedance voltage	
General data	
Accuracy	
Configuration	
Power consumption	
Step response time	
Temperature coefficient	
Voltage supply	
Insulation coordination	
EMC standards	
Galvanic isolation	
Impulse withstand voltage	
Insulation voltage	
Rated voltage	
Overvoltage category	
Pollution degree	
Standards	

1 MΩ±5%
U _{DC} , U _{AC} Effective value (sinusoidal only) 40-60 Hz
0...30 V DC, 0...60 V DC, 0...150 V DC, 0...300 V DC, 0...440 V DC, 0...660 V DC, 0...60 V AC, 0...144 V AC, 0...300 V AC, 0...440 V AC, configurable
1
≤ 500 Ω
0...20 mA, 4...20 mA
0...10 V
≥ 10 kΩ
0.5 % FSR
With FDT/DTM software, Requires configuration adapter 8978580000 CBX200 USB
≤ 100 mA @ 24 VDC, ≤ 120mA @ 24V AC
<300 ms
≤ 200 ppm/K
24...240 VUC (±10%)
EN 61326-1, EN 61000-6-2, EN 61000-6-4
3-way isolator, between input / output / supply
4 kV (1.2/50 μs) input - output, 4 kV (1.2/50 μs) input / supply, 2.5 kV (1.2/50 μs) output / supply
1.5 kV AC output / supply, 2 kV AC input / output, 2 kV AC input / supply
600 V input / output, 600 V input / supply, 300 V output / supply
III
2
EN 50178

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

Screw connection	PUSH IN
1.5 / 0.5 / 2.5	2.5 / 0.5 / 2.5
114.3 / 22.5 / 119.2	114.3 / 22.5 / 119.2

Ordering data

Connection type	
Screw connection	
PUSH IN connection	
Note	

Type	Qty.	Order No.
ACT20P-VM-AQ-S	1	7760054306
ACT20P-VM-AQ-P	1	7760054360

Accessories

Note

CBX200 USB 8978580000
