

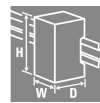
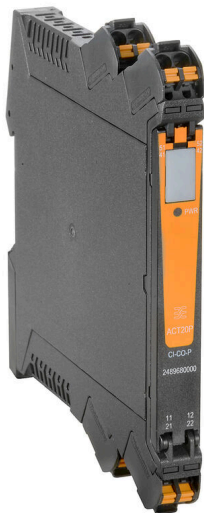
**ACT20P-AI-AO-AC-P****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Similar to illustration**

ACT20P: The flexible solution

- Precise and highly functional signal converters
- Release levers simplify handling

**General ordering data**

Version	Analogue isolating amplifier, Input : I/U universal, Output : I/U universal, Signal converter/isolator, 90...264 V AC power supply
Order No.	<a href="#">2495700000</a>
Type	ACT20P-AI-AO-AC-P
GTIN (EAN)	4050118505986
Qty.	1 items

## ACT20P-AI-AO-AC-P

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULusEX) E338066

## Dimensions and weights

Depth	113.7 mm	Depth (inches)	4.4764 inch
Height	127.1 mm	Height (inches)	5.0039 inch
Width	12.5 mm	Width (inches)	0.4921 inch
Net weight	271.52 g		

## Temperatures

Storage temperature	-25 °C...70 °C	Operating temperature	-20 °C...60 °C
Humidity at operating temperature	0...95 % (no condensation)	Humidity	10...90 %, no condensation

## Probability of failure

SIL in compliance with IEC 61508 None

## Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	2f6dd957-421a-46db-a0c2-cf1609156924

## Input

Number inputs	1	Resolution	3.5 $\mu$ A / 1.76 mV per bit
Sensor supply	24 V DC	Input voltage	configurable, 0-11 V (min. measurement range 2 V)
Input current	configurable, 0-22 mA (min. measurement range 4 mA)	Input resistance, voltage	$\geq$ 1 M $\Omega$
Input resistance, current	100 $\Omega$		

## Output

Number of outputs	1	load impedance voltage	> 600 $\Omega$ @ 10 V
Load impedance current	1 k $\Omega$ @ 20 mA	Offset voltage	$\leq$ 20 mV
Type	active, connected control must be passive	Output voltage, note	Adjustable, 0...11 V, Output range, min, 2 V
Output current	Adjustable, 0...22 mA, Output range, min, 4 mA		

## Output (analogue)

Number analogue outputs 1

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## Technical data

## General data

Protection degree	IP20	Supply voltage	90...264 V AC, 47 to 63 Hz
Linearity	$\pm 0.1$ % of signal range, Typ. $\pm 0.05$ % of signal range	Step response time	350 ms
Mounting rail	TS 35	Temperature coefficient	$<0.05$ % / °C
Nominal power consumption	2 VA	Configuration	DIP switch, Front push-button, with reference voltage/current sources
Operating altitude	$\leq 2000$ m	Power consumption, typ.	3 W

## Insulation coordination

Impulse withstand voltage	4 kV (1.2/50 $\mu$ s)	EMC standards	EN 61326-1
Surge voltage category	III	Pollution severity	2
Galvanic isolation	3-way isolator, between input/output/supply	Insulation voltage	2 kV inputs / outputs

## Connection data

Type of connection	PUSH IN	Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 14	Wire cross-section, solid, min.	0.2 mm <sup>2</sup>
Wire cross-section, solid, max.	2.5 mm <sup>2</sup>	Wire connection cross section, finely stranded, min.	0.2 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.2 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm <sup>2</sup>		

## Part description

Product description	<p>The universally configurable DC isolating amplifier ACT20P-AI-AO-DC/AC-x isolates and converts analogue signals.</p> <p>An analogue input signal (current or voltage) is linearly converted into an analogue output signal (current or voltage) and galvanically isolated.</p> <p>The power supply is galvanically isolated from input and output (3-way isolation).</p> <p>Features</p> <ul style="list-style-type: none"> <li>• Universally configurable via DIP switches and operating buttons</li> <li>• Active or passive signal input</li> <li>• Front LED indicates operation status</li> <li>• 3-way galvanic isolation between input, output and power supply</li> </ul>
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## Classifications

ETIM 8.0	EC002653	ETIM 9.0	EC002653
ETIM 10.0	EC002653	ECLASS 14.0	27-21-01-20
ECLASS 15.0	27-21-01-20		

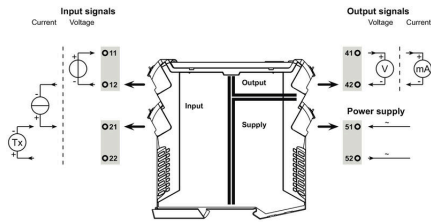
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# Drawings

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### Connection diagram

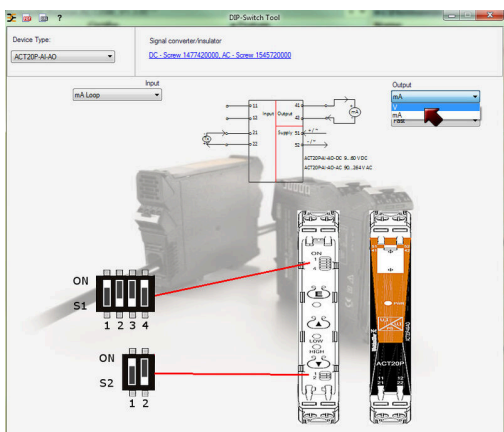
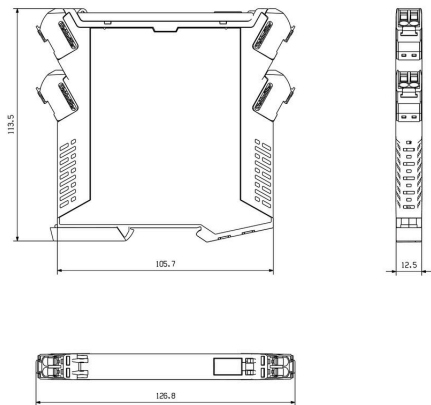


### Type codes

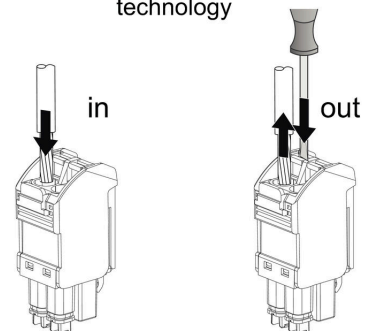
Input		Output			
Input range	DIP switch S2	DIP switch S1			
	1	1	2	3	4
current	■	■			■
voltage			■	■	
filtered response		■			
fast response					

■ = ON

### Dimensioned drawing



### PUSH IN technology



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## Accessories

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## Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

## General ordering data

Type	ESG 8/13.5/43.3 SAI AU	Version	
Order No.	<a href="#">1912130000</a>	ESG, Device markers x 13.5 mm, PA 66, Colour: Transparent, pluggable	
GTIN (EAN)	4032248541164		
Qty.	5 ST		
Type	ESG 6.6/11 BHZ 5.00/02	Version	
Order No.	<a href="#">1082490000</a>	ESG, Device markers x 11 mm, PA 66, Colour: white, pluggable	
GTIN (EAN)	4032248845330		
Qty.	200 ST		