

**ACT20P-CI-VO-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 : 0(4)-20 mA, Output : 0-10 V, Signal converter/isolator
Order No.	<a href="#">2489740000</a>
Type	ACT20P-CI-VO-P
GTIN (EAN)	4050118535181
Qty.	1 items

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## Technical data

## Approvals

Approvals CE; CULUS; CULUSEX; DEMKOATEX; IECEXULD; UKEX

Approvals CULUS;

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E469563

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	120 g		

## Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-20 °C...60 °C
Humidity at operating temperature	0...95 % (no condensation)	Humidity	5...95 %, 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

Sensor	2-wire transmitter (without own power supply), 3-wire sensor, 4-wire sensor (with own power supply)	Number inputs	1
Sensor supply	> 17 V DC at 20 mA	Input current	0...20 mA, 4...20mA
Voltage drop	≤ 1 V		

## Output

Number of outputs	1	load impedance voltage	≥ 600 kΩ
Load impedance current	≤ 550 Ω	Type	active, connected control must be passive
Output voltage, note	0...10 V (if input: 0...20 mA), 2...10 V (if input: 4...20 mA)		

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## General data

Accuracy	±0,1 % FSR max., 0,05 % FSR typ.	Protection degree	IP20
Supply voltage	20...30 V DC	Step response time	≤ 0,5 ms
Current consumption	≤60 mA (24V power supply, 20mA output)	Mounting rail	TS 35
Temperature coefficient	80 ppm/K	Nominal power consumption	2 VA
Configuration	none	Operating altitude	≤ 2000 m

## Insulation coordination

Impulse withstand voltage	4 kV (1.2/50 µs)	EMC standards	EN 61326-1, EN 61000-6-2, EN 61000-6-4
Test voltage	0.3 kV	Surge voltage category	III
Pollution severity	2	Galvanic isolation	3-way isolator, between input/output/supply
Insulation voltage	2 kV inputs / outputs / power supply		

## Data for Ex applications (ATEX)

Marking	II 3 G Ex ec IIC T5 Gc	IECEx - gas labelling	Ex ec IIC T5 Gc
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## Connection data

Type of connection	PUSH IN	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Clamping range, rated connection	2.5 mm <sup>2</sup>
Clamping range, min.	0.5 mm <sup>2</sup>	Clamping range, max.	2.5 mm <sup>2</sup>
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.	0.5 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.	0.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm <sup>2</sup>

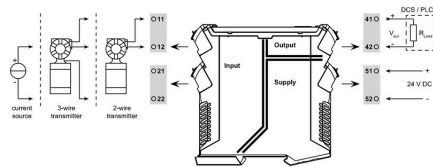
## Part description

Product description	<p>The fixed DC repeater ACT20P-CI-VO isolates analogue standard current signals from a power source or from a 2- or 3-wire sensor. An analogue input current signal is converted linear and galvanic isolated into an analogue output voltage signal. The power supply is galvanically isolated from input and output (3-way isolation).</p> <p>Features</p> <ul style="list-style-type: none"> <li>• The active or passive mA current signal inputs are completely electrically isolated.</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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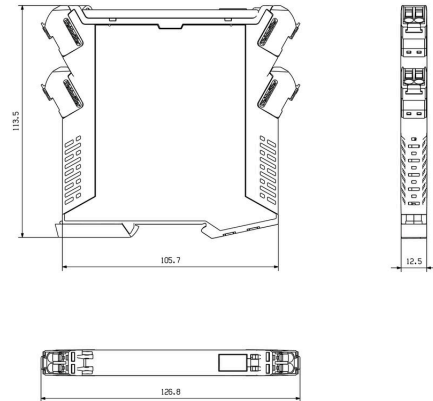
## Classifications

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		

**Connection diagram**



**Dimensioned drawing**



**Similar to illustration**



**PUSH IN**  
 technology

