

ACT20P-CI-VO-S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image****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.	1540010000
Type	ACT20P-CI-VO-S
GTIN (EAN)	4050118344745
Qty.	1 pc(s).

ACT20P-CI-VO-S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data**Dimensions and weights**

Depth	113.7 mm	Depth (inches)	4.476 inch
Height	117.2 mm	Height (inches)	4.614 inch
Width	12.5 mm	Width (inches)	0.492 inch
Net weight	147 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
----------------------------------	------

Input

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

Output

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

Output (digital)

Max. switching voltage, AC	0 V	Max. switching voltage, DC	0 V
Rated switching current	0.1 A		

General data

Accuracy	±0,1 % FSR max., 0,05 % FSR typ.	Configuration	none
Current consumption	≤60 mA (24V power supply, 20mA output)	Galvanic isolation	3-way isolator, between input/output/supply
Nominal power consumption	2 VA	Operating altitude	≤ 2000 m
Protection degree	IP20	Rail	TS 35
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
Pollution severity	2	Surge voltage category	III
Test voltage	0.3 kV		

Creation date May 15, 2025 10:57:59 PM CEST

ACT20P-CI-VO-S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data**Data for Ex applications (ATEX)**

Marking	II 3 G Ex ec IIC T5 Gc
---------	------------------------

Connection data

Type of connection	Screw connection	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Clamping range, rated connection	0.6 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 12

Classifications

ETIM 6.0	EC002653	ETIM 7.0	EC002653
ETIM 8.0	EC002653	ETIM 9.0	EC002653
ETIM 10.0	EC002653	ECLASS 9.0	27-21-01-20
ECLASS 9.1	27-21-01-20	ECLASS 10.0	27-21-01-20
ECLASS 11.0	27-21-01-20	ECLASS 12.0	27-21-01-20
ECLASS 13.0	27-21-01-20	ECLASS 14.0	27-21-01-20
ECLASS 15.0	27-21-01-20		

Environmental Product Compliance

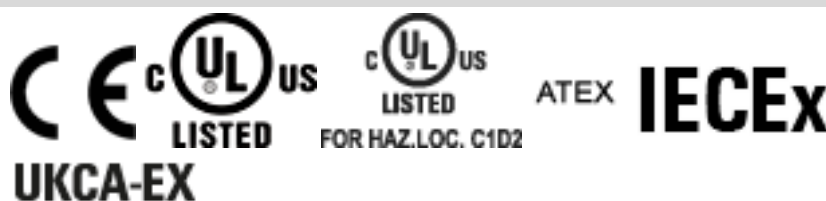
RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	2f6dd957-421a-46db-a0c2-cf1609156924

Important note

Product information	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). Features • The active or passive mA current signal inputs are completely electrically isolated. • Front LED indicates operation status. • 3-way galvanic isolation between input, output and power supply
---------------------	--

Approvals

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_322323/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319213/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319240/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E366074
Certificate no. (cULusEX)	E338066

Creation date May 15, 2025 10:57:59 PM CEST

Catalogue status 10.05.2025 / We reserve the right to make technical changes.

ACT20P-CI-VO-S

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Downloads

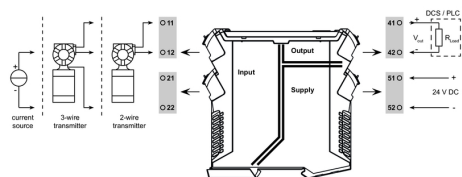
Approval/Certificate/Document of Conformity	IECEX Certification ATEX Certification UL Certification (hazardous location) UL Certification (US-CAN) UL certification (hazardous locations) for canada Declaration of Conformity
Engineering Data	CAD data – STEP
User Documentation	Instruction sheet
Catalogues	Catalogues in PDF-format

ACT20P-CI-VO-S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Drawings****Connection diagram****Dimensioned drawing**