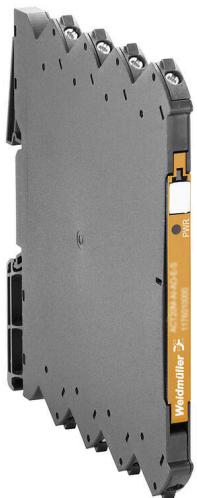


ACT20M-CI-2CO-S

Weidmüller Interface GmbH & Co. KG
Klingenbergsstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image, Similar to illustration**ACT20M: The slim solution**

- Safe and space-saving (6 mm) isolation and conversion
- Quick installation of the power supply unit using the CH20M mounting rail bus
- Easy configuration via DIP switch or FDT/DTM software
- Extensive approvals such as ATEX, IECEX, GL, DNV
- High interference resistance

General ordering data

Version	Signal splitter, Signal distributor, Input : 0(4)-20 mA, Output : 2 x 0(4) - 20 mA
Order No.	1175990000
Type	ACT20M-CI-2CO-S
GTIN (EAN)	4032248969982
Qty.	1 items

ACT20M-CI-2CO-S

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E337701

Dimensions and weights

Depth	114.3 mm	Depth (inches)	4.5 inch
Height	112.5 mm	Height (inches)	4.4291 inch
Width	6.1 mm	Width (inches)	0.2402 inch
Net weight	83.6 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
Humidity at operating temperature	0...95 % (no condensation)	Humidity	40 °C / 93 % rel. humidity, no condensation

Probability of failure

SIL in compliance with IEC 61508	None	MTBF	219 a
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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	Current source, Sensor with own supply, 4-wire sensor	Number inputs	1
Input current	0...20 mA, 4...20 mA	Input resistance, current	70 Ω
Voltage drop, current input	<1.5 V		

Output

Number of outputs	2	Load impedance current	<300 Ω, per channel, @ max 23mA
Type	active, connected control must be passive	Output current	0...20 mA, 4...20 mA
Cut-off frequency (-3 dB)	100 Hz		

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Technical data

General data

Accuracy	<0.05 % of measuring range	Protection degree	IP20
Supply voltage	24 V DC ±30 % at terminal or via CH20M rail bus	Step response time	≤ 7 ms
Mounting rail	TS 35	Temperature coefficient	≤ 0.01 % / °C
Nominal power consumption	1.2 VA	Configuration	none
Operating altitude	≤ 2000 m	Power consumption, max.	0.8 W
Power consumption, typ.	0.45 W		

Insulation coordination

EMC standards	IEC 61326-1	Surge voltage category	II
Pollution severity	2	Galvanic isolation	3-way isolator
Insulation voltage	2.5 kVeff / 1 min.	Rated voltage	300 Veff

Data for Ex applications (ATEX)

Marking	II 3 G Ex nA IIC T4 Gc	IECEx - gas labelling	Ex nA IIC T4 Gc, Standard: IEC 60079-0-15
Installation location	Device installed in safe area, zone 2		

Connection data

Type of connection	Screw connection	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Clamping range, rated connection	2.5 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 30	Wire connection cross section AWG, max.	AWG 14

EMC conformity and approvals

EMC standards	IEC 61326-1	Standards	ATEX, EN 60079-0, IECEx, IEC 60079-0
Ship use	DNV-GL	Safety standard	UL 61010-1

Part description

Product description	The non-adjustable DC isolating amplifier ACT20M-CI-CO-S isolates analogue standard current signals. An analogue input current signal is linearly converted to an analogue output current signal and is galvanically isolated. The power supply is galvanically isolated from the input and output (3-way isolation) by means of direct wiring or the Weidmüller rail bus. The non-adjustable DC isolation amplifier ACT20M CI-2CO-S offers the same functionality, but has 2 galvanically isolated outputs (4-way isolation).
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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		

Tender specification sheets

Long specification	Standard signal splitter 1-channel signal splitter in 6.1 mm width with external power supply,	Short specification	Standard signal splitter 1-channel signal splitter in 6.1 mm width with external power supply,
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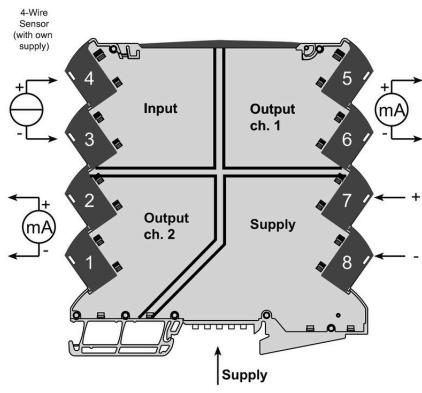
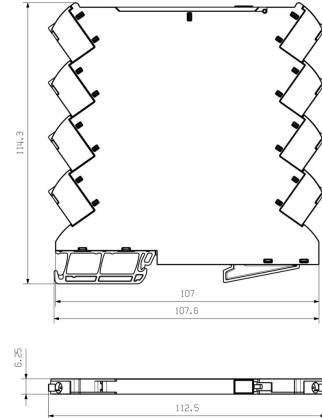
Technical data

to transmit, isolate and split analogue DC current signals 0/4...20 mA
Add-on housing for TS35 rail mounting
Dimensions: L/W/H 114.3/ 6.1/ 112.5 mm
Screw connection / Nominal cross-section 2.5 mm²
Protection degree: IP 20
Input 0/4...20 mA
Output 2 x 0/4...20 mA
Load resistance < 300 Ohm/ Ausgang
Transmission error < 0,05 % v. E.
Limit frequency 100 Hz
Auxiliary power 24 VDC +/- 30 %
Power loss approx. 0.8 W
Ambient temperature range -25 °C...+70 °C
Isolation EN 61010-1, 3-way/ isolation up to 2.5 kV AC/ DC of all circuits against each other
Test voltage 2.5 kV input against output against auxiliary power
Rated voltage 300 V AC/DC at overvoltage category II and pollution degree 2
Approvals cULus, FM Div2, ATEX Zone2, DNV, GL
Type ACT20M-CI-2CO-S

ACT20M-CI-2CO-S

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Drawings**Connection diagram****Dimensional drawing**

Additional power supply option via bus

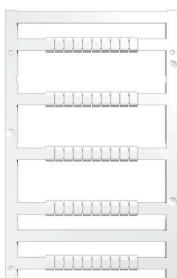
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Accessories

Blank



MultiFit is the Weidmüller marker system used for other makes of terminals. Similar to the Weidmüller Dekafix, the markers of the MultiFit family are available ready-for-use with standard printing.

We recommend to carry out a test with sample markers on the terminals used when using MultiFit for the first time.

- One marker, suitable for different makes of terminals.
- Ready-to-use markers with standard printing
- Blank markers for printing with the PrintJet CONNECT or Plotter
- Delivery of individually printed markers according to customer CAE data or specifications
- One marking system for all applications

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	MF 5/7.5 MC NE WS	Version
Order No.	1877680000	MultiFit, Terminal marker, 5 x 7.5 mm, Pitch in mm (P): 7.50 Adels
GTIN (EAN)	4032248468270	RKW, Phoenix, white
Qty.	320 ST	

ACT20 (incl. DIN rail bus & powersupplies)



Power supply adapter modules for separate supply and distribution of the supply voltage: for the ACT20 series/ MICROSERIES signal converters.

The 22.5/6.1 mm wide power-feed modules are mounted directly adjacent to the analogue signal converters. Then the 24 VDC supply voltage is optionally bridged via the CH20M (ACT20-series) rail bus or simply bridged over using the pluggable ZQV 4N (MICROSERIES) cross-connectors.

The ACT20-Feed-In-PRO-S can also detect faults coming from any of the devices mounted on the CH20 bus mounting profile.

In the event of an error or fault, the integrated status relay sends a common alarm to the external controller. In addition, two power supply units (as primary and backup supply) can be connected to the ACT20 Feed-In PRO-S.

Two feed-in modules mounted to the CH20 bus mounting profile guarantee a 100% redundant power supply.

Three LEDs are used to show the status of the power supply and error messages.

The ACT20M-Feed-In PRO can also be used in Ex zone2 / Division2 applications.

General ordering data

Type	ACT20-FEED-IN-BASIC-S	Version
Order No.	1282490000	Supply module, Distributes supply voltage to rail bus
GTIN (EAN)	4050118072730	
Qty.	1 ST	

ACT20M-CI-2CO-S

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Accessories

CH20M BUS SET - Kit



The integrated rail bus for the modular electronics housing system

When supplying, connecting or distributing within modular applications, the rail bus can replace the tedious individual wiring process with a flexible and uninterrupted system-wide solution.

The system bus is securely integrated within the 35-mm standard mounting rail. The SMD-bus contact block can be reflow-soldered so that it can be completely automatically processed during the component assembly. The resistant, gold-plated contact surfaces ensure a permanent and reliable contact for all housing widths.

- Unlimited scalability The integrated connection solution covers all system widths: from the 6-mm slice to the 67-mm large-area housing.
- Easy to service during installation It's easy to replace a module, even in existing modules groups – without any influence on the neighbouring modules.
- Universal integration The uninterrupted system bus is securely integrated within the 35-mm standard mounting rail.
- Maximum availability Five fully-galvanized and partially gold-plated twin-arched contacts are used to establish a permanent contact to the rail bus. THR solder flanges ensure that the connection to the circuit board is stable.

General ordering data

Type	SAMPLE CH20M BUS 250MM	Version
	...	
Order No.	1335150000	Mounting rail bus system, Sample set, OMNIMATE Housing - series
GTIN (EAN)	4050118138382	CH20M, Width: 25.1 mm
Qty.	1 ST	

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The ACT20M-Feed-In PRO can also be used in Ex zone2 / Division2 applications.

General ordering data

Type	SAMPLE CH20M BUS 250MM	Version
	...	
Order No.	1335140000	Mounting rail bus system, Sample set, OMNIMATE Housing - series
GTIN (EAN)	4050118138375	CH20M, Width: 25.1 mm
Qty.	1 ST	