



Weidmüller Interface GmbH & Co. KG

1

Klingenbergstraße 26 D-32758 Detmold Germany

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Product image, Similar to illustration



The universal frequency measuring transducer, which can be configured via software, disconnects and converts input signals (frequency, Namur, NPN, PNP, speedometer, TTL and S0) into an active analogue standard output signal. The power supply is galvanically isolated from the input and output (3-way isolation) by means of direct wiring. The model ACT20M-FRQ-AO-S can be supplied via the Weidmüller DIN rail bus

General ordering data

Version	Frequency signal converter, including rail bus supply, Input: Frequency, Output: 0(4)-20 mA, 0(2)-10 V
Order No.	<u>2825020000</u>
Туре	ACT20M-FRQ-AO-S
GTIN (EAN)	4064675360834
Qty.	1 items





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Technical data

Approvals			
ROHS	Conform		
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	80 g	_	
Temperatures			
Storage temperature	-40 °C85 °C	Operating temperature	-25 °C70 °C
Humidity	095 % (no condensation)	operating temperature	20 070 0
Environmental Product Compl	liance		
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	NAMUR sensor, according	Number inputs	1
	to EN60947-5-6, NPN / PNP transistor (trig-level low: ≤4 V high: ≥7 V), TTL (trig-level low: ≤0.8 V high: ≥2.0 V), Tacho (trig-level low: ≤-50 mV high: ≥+50 mV), Special current (trig-level: user-defined), Special voltage (trig-level: user-defined), S0 (trig-level low: ≤2.2 mA high: ≥9.0 mA)		
Input frequency	adjustable, 0100kHz	Sensor supply	517 V
Output			
Number of outputs	1	load impedance voltage	≥ 10 kΩ
Load impedance current	≤ 600 Ω	Type	active, connected contro must be passive
Output voltage, note	0(2)10 V, 0(1)5 V, 0(0,2)1 V	Output current	020 mA, 420 mA, in case of sensor error, downscale (3,5 mA), upscale (23 mA)
Output behaviour on failure downscale	3.5 mA	Output behaviour on failure upscale	23 mA
Output signal limit	<28 mA		
General data			
Acquired	Pagia aggurages O 0000 H-	Protection degree	ID20
Accuracy Supply voltage	Basic accuracy: 0.0002 Hz 24 V DC ±30 % at terminal or via CH20M rail bus	Protection degree Step response time	IP20 ≤ 30 ms, (090% / 100. 10% of input level)

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Technical data

Mounting rail	TS 35	Temperature coefficient	≤0,01% of measurement range°C
Nominal power consumption	0.5 VA	Configuration	DIP switch or via FDT/ DTM software
Operating altitude	≤ 2000 m	Power consumption, max.	1.2 W
Power consumption, typ.	0.65 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	250 V. 300 V

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,	AWG 30	Wire connection cross section AWG,	AWG 14
min.		max.	

EMC conformity and approvals

EMC standards	IEC 61326-1	Standards	IEC 61010-1

Part description

Product description	The universal frequency measuring transducer, which can be configured via software, disconnects and converts input signals (frequency, Namur, NPN, PNP, speedometer, TTL and SO) into an active analogue standard output signal. The power supply is galvanically isolated from the input and output (3-way isolation) by means of direct wiring. The model ACT20M-FRQ-AO-S can be supplied via the Weidmüller DIN rail bus

Classifications

ETIM 6.0	EC002918	ETIM 7.0	EC002918
ETIM 8.0	EC002918	ETIM 9.0	EC002918
ETIM 10.0	EC002918	ECLASS 9.0	27-21-01-28
ECLASS 9.1	27-21-01-28	ECLASS 10.0	27-21-01-28
ECLASS 11.0	27-21-01-28	ECLASS 12.0	27-21-01-28
ECLASS 13.0	27-21-01-28	ECLASS 14.0	27-21-01-28
ECLASS 15.0	27-21-01-28		



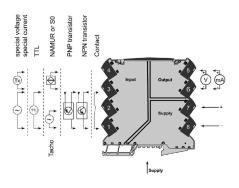
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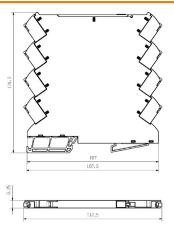
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Drawings

Connection diagram



Dimensional drawing





Additional power supply option via bus



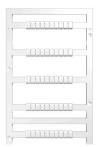
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Accessories

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-foruse 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
Order No. 1877680000
GTIN (EAN) 4032248468270
Oty. 320 ST

Version

MultiFit, Terminal marker, 5 x 7.5 mm, Pitch in mm (P): 7.50 Adels

RKW, Phoenix, white

Configuration interfaces



General ordering data

Type CBX200 USB
Order No. 8978580000
GTIN (EAN) 4032248813759
Oty. 1 ST

Version

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Accessories

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

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

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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 67mm 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 SET CH20M BUS 250MM TS ... Version
Order No. 1335150000 Mounting rail bus system, Sample set, OMNIMATE Housing - series

GTIN (EAN) 4050118138382 CH20M, Width: 25.1 mm

Qty. 1 ST

Network-compatible current measuring transducers ACT20C



The ACT20C series was especially developed for applications with continuous processes. It enables the continuous monitoring of diagnostic, device and process information ("condition monitoring").

Several ACT20C components form a station which consists of an ACT20C Ethernet gateway, communicative ACT20C signal converters and an ACT20C bus termination terminal.

7

General ordering data

Creation date 26.11.2025 10:50:04 MEZ

 Type
 SET CH20M BUS 250MM TS ...
 Version

 Order No.
 1335140000
 Mounting rail bus system, Sample set, OMNIMATE Housing - series

 GTIN (EAN)
 4050118138375
 CH20M, Width: 25.1 mm

 Qty.
 1 ST