

ACT20M-TCI-AO-X-P

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

www.weidmueller.com

Product not yet available,
preliminary product data.

Product image**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	Temperature converter, Thermocouple, With galvanic isolation, Input : Temperature, thermocouple, Output : I / U
Order No.	2825300000
Type	ACT20M-TCI-AO-X-P
GTIN (EAN)	4064675361114
Qty.	1 items

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Technical data

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	0 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	
Humidity	40 °C / 93 % rel. humidity, no condensation		

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	Thermocouples: J, K	Number inputs	1
Temperature input range	Configurable, J: (-100... +1200 °C), K: (-180... +1372 °C), min. measurement range 50°C (TC)		

Output

Number of outputs	1	load impedance voltage	≥ 10 kΩ
Load impedance current	≤ 600 Ω	Wire break detection	Yes, Configurable, 3.5 mA / 23 mA / none
Type	active, connected control must be passive	Output voltage, note	configurable, 0(2)...10 V, 0(1)...5 V
Output current	configurable, 0...20 mA, 4...20 mA		

General data

Accuracy	absolute accuracy: <±0.05 % of the measurement range, Basic accuracy: < ±0.5°	Protection degree	IP20
Supply voltage	24 V DC ± 30 %	Step response time	Configurable, ≤ 30 ms, <300 ms
Mounting rail	TS 35	Temperature coefficient	0,1 °C/°C, or, ≤0,01% des Messbereichs°C
Nominal power consumption	0.5 VA	Configuration	DIP switch
Operating altitude	≤ 2000 m	Power consumption, max.	0.7 W
Power consumption, typ.	0.49 W		

Insulation coordination

EMC standards	IEC 61326-1, NE 21	Surge voltage category	II
Pollution severity	2	Galvanic isolation	3-way isolator
Insulation voltage	2.5 kVeff / 1 min.	Rated voltage	300 Veff

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Technical data

Data for Ex applications (ATEX)

Marking	II 3 G Ex nA IIC T4 Gc	Installation location	Device installed in safe area, zone 2
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Connection data

Type of connection	PUSH IN	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, NE 21
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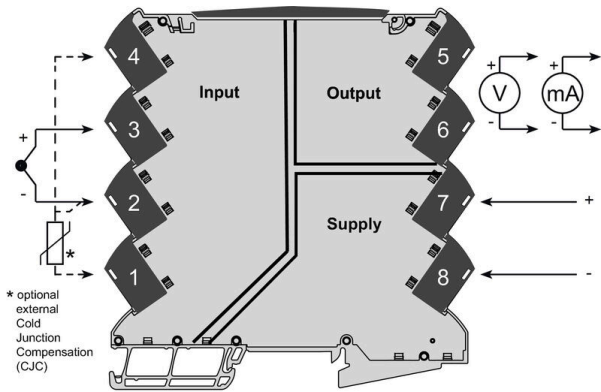
Part description

Product description	The ACT20M-TCI-AO-S configurable temperature transducer isolates and converts analogue signals. An analogue thermocouple input signal (Type J, K) is linearly converted into an analogue output signal and is galvanically isolated. The power supply is galvanically isolated from the input and output (3-way isolation) and this is done with direct wiring or over the Weidmüller rail bus.
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Classifications

ETIM 8.0	EC002919	ETIM 9.0	EC002919
ETIM 10.0	EC002919	ECLASS 14.0	27-21-01-29
ECLASS 15.0	27-21-01-29		

Connection diagram



Dimensional drawing



ACT20M-TCI-AO-X-P

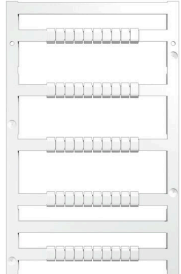
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Accessories

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		