

ACT20M
ACT20M-RTCI-CO-OLP-S

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Technical data
Insulation coordination

EMC standards	IEC 61326-1, NE 21	Galvanic isolation	2-way isolator
Insulation voltage	2.5 kV _{eff} / 1 min.	Pollution severity	2
Rated voltage	300 V _{eff}	Standards	IEC 61010-1
Surge voltage category	II		

Data for Ex applications (ATEX)

Marking	II 3 G Ex nA IIC T4 Gc
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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, rated connection, min.	0.5 mm ²	Clamping range, rated connection, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 30	Wire connection cross section AWG, max.	AWG 14

Rated data UL

UL certificate	E337701.pdf
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Ratings IECEx/ATEX/cUL

Certificate No. (ATEX)	KEMA10ATEX0183X	Certificate No. (IECEX)	IECEXKEM10.0090X
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Classifications

ETIM 5.0	EC002653	ETIM 6.0	EC002919
eClass 6.2	27-21-01-20	eClass 7.1	27-21-01-20
eClass 8.1	27-21-01-20	eClass 9.0	27-21-01-20
eClass 9.1	27-21-01-29		

Product information

Product information	<p>ACT20M-RTCI-CO-(E)OLP-S</p> <p>Configurable passive signal converter for temperature measurement of PT100, 2-, 3-, 4-wires and thermocouples type J and K.</p> <p>The 6.1 mm wide ACT20M-RTCI-CO-(E)OLP-S signal converter is output-current loop-powered and suitable for converting and isolating RTD and TC signals. Input and output parameters as well as a fast conversion time of 30 ms or 300 ms can be configured via DIP switch. The ACT20M temperature converter detects sensor errors (short-circuit, cable break) and issues corresponding NAMUR signal limits at the output (configurable upscale/downscale).</p> <p>On the ACT20M-RTCI-CO-OLP-S the input/output channel is completely galvanically isolated with 2.5 kV. The ACT20M-RTCI-CO-EOLP-S does not have any galvanic isolation.</p> <p>The ACT20M product family features high accuracy of < 0.05% of the measurement range, a large temperature range of -25°C (0°C)...+70°C, outstanding EMC characteristics and international approvals (cULus, ATEX Zone2, FM Div2, GL, DNV). This permits use around the globe in a wide range of applications.</p> <p>Power is supplied directly on the module via the output-current loop.</p>
Descriptive text accessories	DIN mounting rail, see accessories

Data sheet

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Technical data

Approvals

Approvals



ROHS Conform

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Brochure/Catalogue	CAT 4.1 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD, Zuken E3.S
Software	DIP switch configuration tool
User Documentation	instruction sheet