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Schedule

TYPE EXAMINATION CERTIFICATE No.

UL 23 ATEX 2956X Rev. 0

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Description of Product:

The universally configurable ACT20P-PRO-RTCI-AO-DO-x and ACT20P-PRO-RTC-AO-DOS-x measurement and signal converters isolate, convert, and monitor analogue signals. An analogue input signal (voltage, potentiometer, resistance, or temperature sensor signal) is converted into an analogue output signal (current or voltage) and galvanically isolated. The device features an NPN transistor output that issues an alarm if the preset limit values are exceeded or not met.

The universally configurable frequency converter ACT20P-PRO-FI-AO-DO-x and ACT20P-PRO-FI-AO-DOS-x separate, convert, and monitor frequency signals and the duty cycle of pulse width modulated (PWM) signals. A frequency or PWM input signal is converted into an analogue output signal (current or voltage) and is galvanically isolated. The device features an NPN transistor output that issues an alarm if the preset limit values are exceeded or not met.

Nomenclature:

I ACT20P-PRO-	II RTCI-AO-	III DO-	IV S
I ACT20P-PRO-	Model series		
II RTCI-AO-	Resistor/Thermocouple input, analogue output signal type (DO only)		
RTC-AO-	Resistor/Thermocouple input, analogue output signal type (DOS only)		
FI-AO-	Frequency converter input, analogue output type		
III DO-	Digital out (RTCI and FI only)		
DOS-	SIL rated Digital out (RTC and FI only)		
IV P	Push/spring terminals		
S	Screw terminals		

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1) to the scope of EN 60079-28:2015.

Power Supply:

ACT20P-PRO-RTCI-AO-DO-x and ACT20P-PRO-RTC-AO-DOS-x
 48...230 V AC -10% / +20%
 24...230 V DC -10% / +20%
 ≤ 2.5 W

ACT20P-PRO-FI-AO-DO-x and ACT20P-PRO-FI-AO-DOS-x
 48...230 V AC -10% / +20%
 24...230 V DC -10% / +20%
 ≤ 3 W

Ambient Temperature Ratings:
 -40°C ≤ Tamb ≤ +70°C

Device distance between modules shall be ≥ 12 mm for ambient temperatures > 60 °C (e.g., use of end bracket WEW 35/1 SW, order number 1162600000).

Alarm transistor for all models:
 ≤ 24 V DC ±30 % / ≤ 100 mA

For inputs and outputs, see Instructions drawings (2505930000, 2592360000, 2592350000, 2592380000).

Routine tests:

Each piece of equipment shall be subjected to routine dielectric strength test at a level of 2400 V rms for 2 seconds between all electrical circuits without electrical breakdown in accordance with applicable OrdLoc standard.

For ACT20P-PRO-FI-...:

Block 1	Block 2	Applied Voltage	Max Leakage Current
X1/X2/X3	X4/X5/X6	2,4 kV AC, 50 Hz, ≥2 s	6 mA RMS
X1/X2/X3/X4/X5	X6	2,4 kV AC, 50 Hz, ≥2 s	6 mA RMS
X4	X5	2,4 kV AC, 50 Hz, ≥2 s	6 mA RMS

For ACT20P-PRO-RTC-AO-... and ACT20P-PRO-RTCI-AO-...:

Block 1	Block 2	Voltage	Max Leakage Current
X1/X2	X4/X5/X6	2,4 kV AC, 50 Hz, ≥2 s	6 mA RMS
X1/X2/X4/X5	X6	2,4 kV AC, 50 Hz, ≥2 s	6 mA RMS
X4	X5	2,4 kV AC, 50 Hz, ≥2 s	6 mA RMS

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Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

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Special Conditions of use:

- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with EN IEC 60079-0 and only accessible by use of a tool.
- The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.
- For full details surrounding Ambient Temperature ratings, deratings, input and output ratings and mounting requirements, see Instructions.
- The minimum rated temperature of the cable connected to the field wiring terminals must be 85°C.
- Only use cables with copper conductors.

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Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The trademark **Weidmüller**  will be used as the company identifier on the marking label.