ACT20D-LED-FI-AO-2RC-AC-DC

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

www.weidmueller.com

Product image





Devices in this series display universal analogue process values.
Depending on the version, the devices convert/isolate the signals into an analogue current signal and have additional limit value relays which switch further signals.
Features:

- Several sensor variants can be processed.
- An auxiliary power supply is required.
- Even in unfavourable lighting conditions, the display value is clearly visible.

General ordering data

Version	Display, Input : Frequency, Output : Display, analogue V / mA
Order No.	2920070000
Type	ACT20D-LED-FI-AO-2RC-AC-DC
GTIN (EAN)	4099986580367
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	120 mm	Depth (inches)	4.724 inch
Height	48.8 mm	Height (inches)	1.921 inch
Width	96.6 mm	Width (inches)	3.803 inch
Net weight	295 g		

Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-20 °C...60 °C

Display

Cycle time	2.2 times / s	Decimal point	configurable, 9.999, 99.99, 999.9, 9999
Dimmable	Yes	Display range	-1999...9999
Display value	current measured value, Percentage or real value display, Switching status	Format	14 segment (numbers + letters), Scrolling text in 8 languages in case of error (e.g. sensor wire breakage, input overrange...)
Scaling	Variable	Type	red LED, 4-character display, Digit size: 13.8 mm

General data

Accuracy	absolute accuracy: <±0.1 % of the measurement range	Configuration	Front push-button
DIN Rail compatibility	No	Power consumption	≤ 3.5 W
Protection degree	IP20, IP65 (in plugged condition), IP65	Temperature coefficient	≤0,01% of measurement range/°C
Type of connection	Tension clamp connection with actuator	Type of mounting	Frontpanel mounting, Front mounting
Voltage supply	21.6...253 VAC, (50...60 Hz) or 19.2...300 VDC		

Input

Input frequency	0.001...50 kHz	Min. pulse duration (reset input)	20 µs...999,9 s
Number of inputs	1	Response time	≤ 1 Period + 100 ms
Sensor	S0 (trig-level low: ≤2.2 mA high: ≥9.0 mA), Special current (trig-level: user-defined), Special voltage (trig-level: user-defined), TTL (trig-level low: ≤0.8 V high: ≥2.0 V), Tacho (trig-level low: ≤-50 mV high: ≥+50 mV), NAMUR sensor, according to EN60947-5-6, NPN / PNP transistor (trig-level low: ≤4 V high: ≥7 V), Trigger level adjustable, Switch	Sensor supply	5...17 V
Type	Adjustable frequencies		

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Output (digital)

Alarm function	Over / under frequency, Overspeed / underspeed, Holding function can be activated	Hysteresis	0...100 %
Max. switching voltage, AC	250 V	Max. switching voltage, DC	30 V
Number of digital outputs	2	Rated switching current	2 A
Rated switching voltage	24 V AC ... 250 V AC	Status indicator	Green LED
Switch-off delay	0...3600 s	Switch-on delay	0...3600 s
Switching capacity	500 VA	Switching thresholds	Adjustable
Switching thresholds	All values in display range are configurable	Type	2 x 1 CO contact (hard gold-plated)
Type of switch function	direct or inverted		

Output (analogue)

Load resistance current	≤ 800 Ω	Number of analogue outputs	1
Output behaviour on failure downscale	3.5 mA	Output behaviour on failure upscale	23 mA
Signal output	direct or inverted	Type (analogue output)	'active','connected control must be passive'

Insulation coordination

EMC standards	EN 61326-1	Galvanic isolation	between input / output / supply / relay
Insulation voltage	2.3 kVAC (Test) / 250 VAC (operating state)	Pollution severity	2
Surge voltage category	II		

Connection data

Wire connection method	Clamping yoke, pluggable	Type of connection	Tension clamp connection with actuator
Wire connection cross section AWG, min.	AWG 30	Wire connection cross section AWG, max.	AWG 16
Wire connection cross section, finely stranded, min.	0.13 mm²	Wire connection cross section, finely stranded, max.	2.8 mm²

Classifications

ETIM 6.0	EC000677	ETIM 7.0	EC000677
ETIM 8.0	EC000677	ETIM 9.0	EC000677
ETIM 10.0	EC000677	ECLASS 9.0	27-14-31-10
ECLASS 9.1	27-21-03-01	ECLASS 10.0	27-14-31-10
ECLASS 11.0	27-14-31-10	ECLASS 12.0	27-14-31-10
ECLASS 13.0	27-14-31-10	ECLASS 14.0	27-14-31-10
ECLASS 15.0	27-14-31-10		

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cI
REACH SVHC	Lead 7439-92-1 Potassium perfluorobutane sulfonate 29420-49-3
SCIP	f4905d12-f516-4eb5-90a8-8c87685bc956

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Approvals

Approvals	
Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/
ROHS	Conform

Downloads

Approval/Certificate/Document of Conformity	RCM certification DNV certification UL certification Declaration of Conformity
Engineering Data	CAD data – STEP
User Documentation	Instruction sheet
Catalogues	Catalogues in PDF-format

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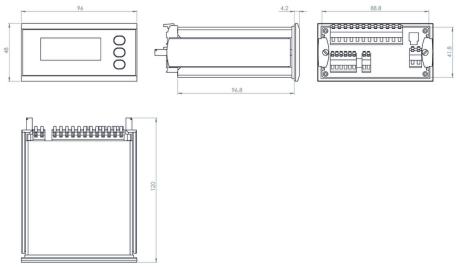
Drawings

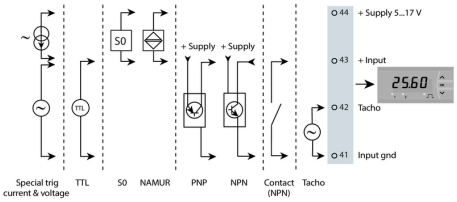
Dimensioned drawing





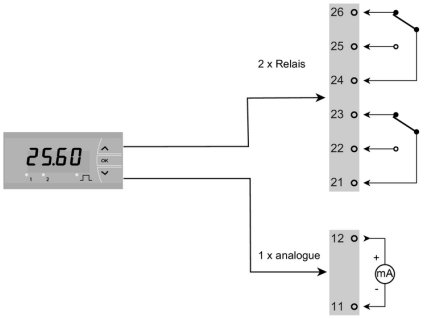
Wiring diagram

Input:

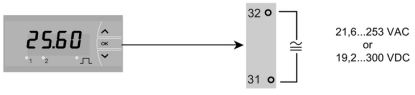


Wiring diagram

Output:



Supply



part of the setting menu

