

Data sheet

KMA-R-E08

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P/N
11066001

EAN 4250184172864

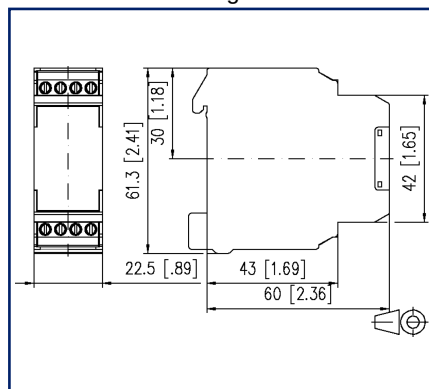
2026/09/28

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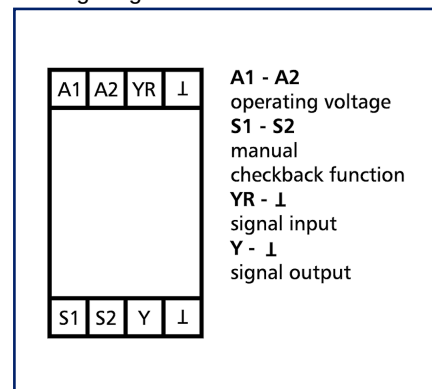
Illustrations



Dimensional drawing



Wiring diagram



See enlarged drawings at the end of document

Product specification

The analog encoder is used as encoder for manual control variable definition, e.g. mixing valves, valve positions, temperature values, etc. The module can be operated in two modes, which can be commuted by means of integrated two-level switches (HAND, AUTO). The switch position is signalized by external control contact terminals S1 and S2. Switch position HAND. The control variable can be set on the potentiometer at the front. The output signal 0 to 10 V (external voltage protection) is available on the Y terminal. Switch position AUTO. The control variable is looped through over the YR terminal to the Y output without change.

- Setpoint device
- Manual control level with checkback
- LED brightness proportional to control variable
- External voltage protection

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Technical Data

Supply

Operating voltage	24 V AC/DC -15% ... +20%
Power consumption AC (max.)	24 mA
Power consumption DC (max.)	19 mA

Manual control level

Mechanical life	3x10 ⁴ switchings
Switching capacity (max.)	24 V AC/DC / 1 A

Inputs

Voltage input (YR)	0 - 10 V DC
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Outputs

Voltage output (Y)	0 - 10 V DC (external voltage protection)
Output current (max.) switch position "MANU"	1 mA
Switch AUTO/ON	shortcircuit proof
Indicator	red LED

Housing

Dimensions	
Dimension (W x H x D)	22.5 mm x 61.3 mm x 60 mm
Dimension (W x H x D)	0.886 in. x 2.413 in. x 2.362 in.
Weight	70 g
Mounting style	Standard rail TH35
Mounting position	any
Apposition	without distance
Connection type	Screw type terminal blocks

Terminal blocks

Wire cross section solid	0.34 mm ² - 2.5 mm ² / AWG 22-12
Wire cross section multi	0.34 mm ² - 2.5 mm ² / AWG 22-12
Wire cross section with wire ferrule	0.34 mm ² - 2.5 mm ² / AWG 22-12
Screw torque (max.)	0.5 Nm
Stripping length (min.)	8 mm

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Technical Data

Material

Material - Housing	Polyamid 6.6 V0
Color	gray
Material - Terminal block	Polyamid 6.6 V0

Protection category according to IEC 60529

Protection category - housing (acc. to IEC 60529)	IP40
Protection category - terminal blocks (acc. to IEC 60529)	IP20

Climatic Data

Operating

Temperature - Operating °C	-10 °C - 50 °C
Temperature - Operating °F	14 °F - 122 °F
Relative humidity	max. 85 % non-condensing

Storage

Temperature - Storage °C	-25 °C - 70 °C
Temperature - Storage °F	-13 °F - 158 °F

Power loss

Power loss (typical) during 24 V DC operation	230 mW
Power loss (typical) during 24 V AC operation	330 mW

Classifications

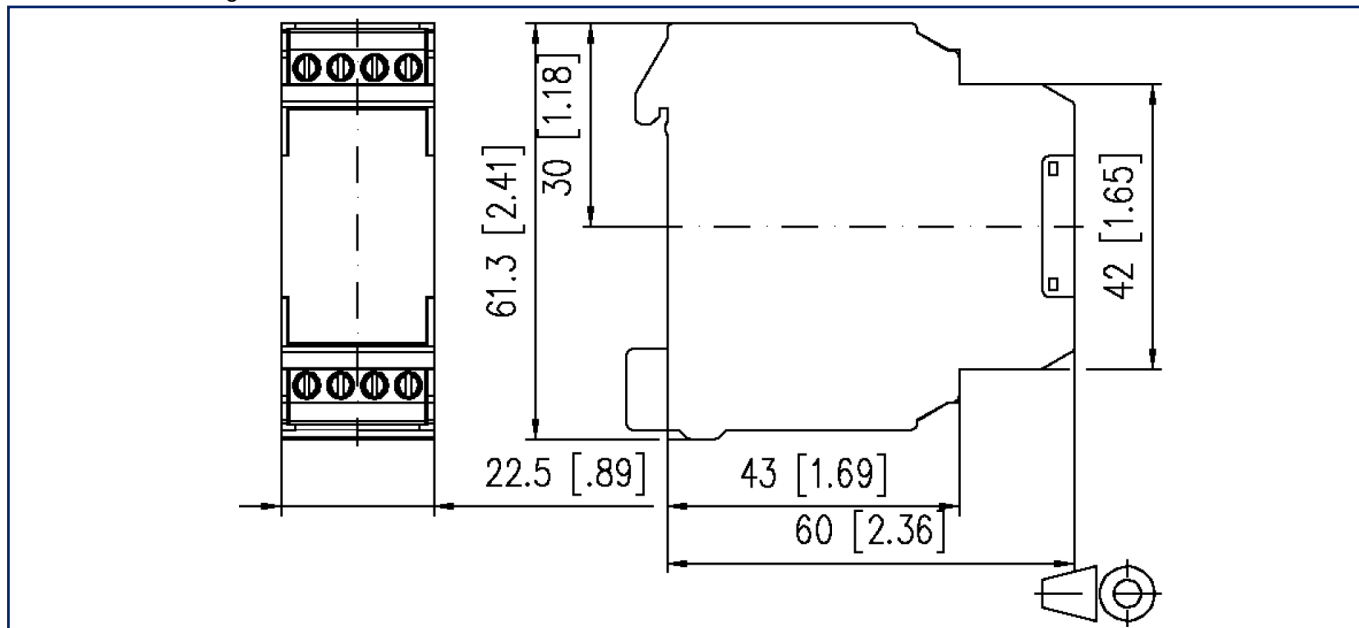
ETIM 7.0	EC000310
ETIM 8.0	EC000310
ETIM 9.0	EC000310
ETIM 10.0	EC000310

Application note

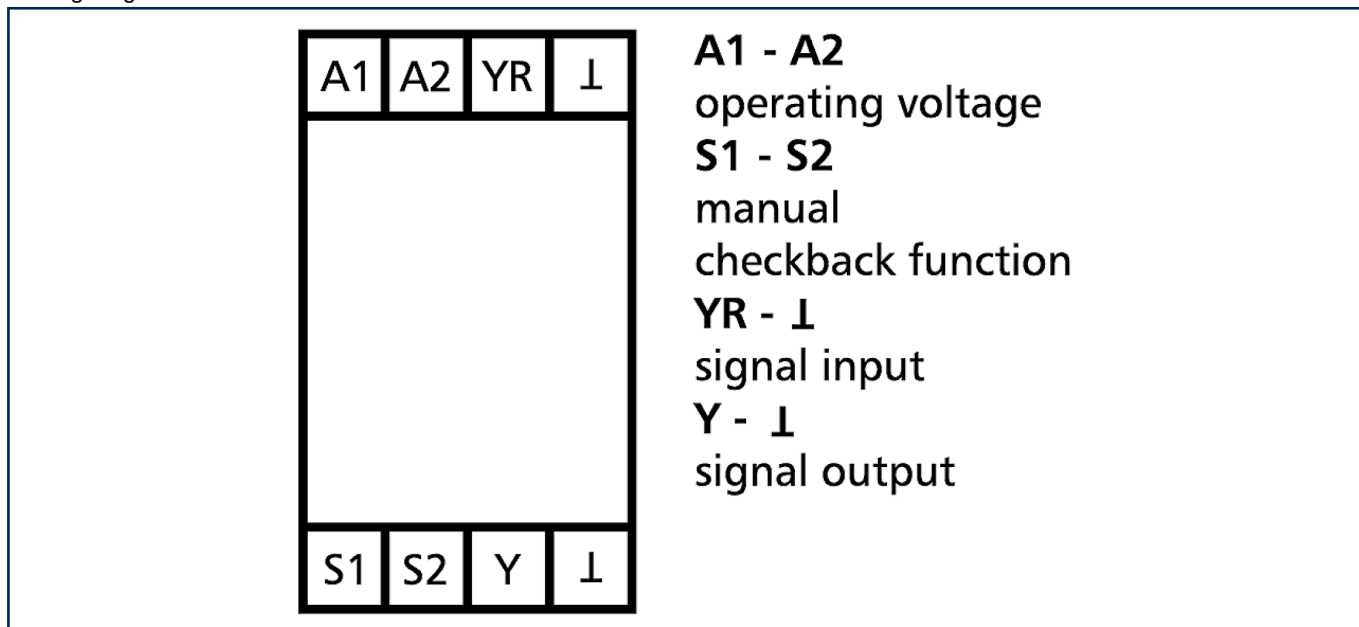
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Illustrations

Dimensional drawing



Wiring diagram



Illustrations

Circuit diagram

