

Data sheet

KMA-F8

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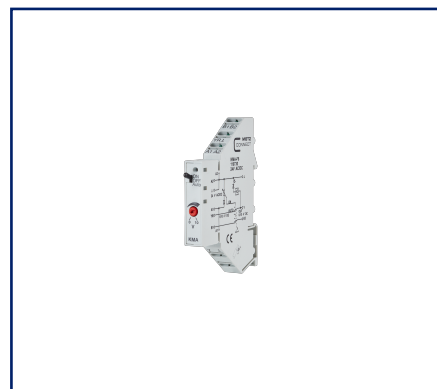
110730

EAN 4250184123224

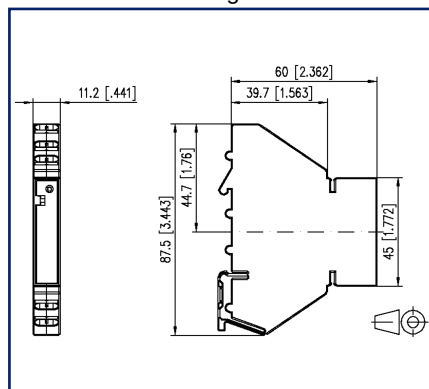
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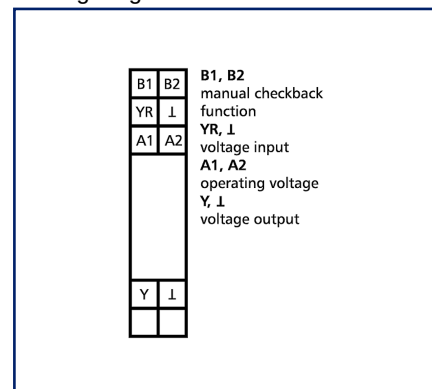
Illustrations



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 three modes, which can be commuted by means of integrated three-level switches (ON, OFF, AUTO). The switch position is signalized by external control contact terminals B1 and B2. The control variable can be set on the potentiometer at the front. The output signal 0 to 10 V is available on the Y terminal. If the switch is in AUTO position, the control variable is looped through over the YR terminal to the Y output without change.

- Connection by spring clamp terminal blocks (push-in)
- Setpoint device
- Manual control level with checkback
- LED brightness proportional to control variable

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Technical Data

Supply

Operating voltage	24 V AC/DC -15% ... +20%
Power consumption AC (max.)	30 mA
Power consumption DC (max.)	19 mA
Duty cycle relative	100 %

Manual control level

Mechanical life	1x10 ³ switching cycles
Switching capacity (min.)	3 V AC/DC / 50 µA
Switching capacity (max.)	24 V AC/DC / 50 mA
Test voltage	100 V, 50 Hz, 1 min

Inputs

Voltage input (YR)	0 - 10 V DC
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Outputs

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

Housing

Dimensions	
Dimension (W x H x D)	11.2 mm x 87.5 mm x 60 mm
Dimension (W x H x D)	0.441 in. x 3.445 in. x 2.362 in.
Weight	43 g
Mounting style	Standard rail TH35
Mounting position	any
Apposition	without distance
Connection type	Spring clamp terminal blocks

Terminal blocks

Wire cross section solid	0.08 mm ² - 2.5 mm ² / AWG 28-14
Wire cross section multi	0.08 mm ² - 2.5 mm ² / AWG 28-14
Wire cross section with wire ferrule	0.14 mm ² - 1.5 mm ² / AWG 26-16
Stripping length (min.)	10 mm

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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	-5 °C - 55 °C
Temperature - Operating °F	23 °F - 131 °F
Relative humidity	max. 85 % non-condensing

Storage

Temperature - Storage °C	-20 °C - 70 °C
Temperature - Storage °F	-4 °F - 158 °F

Power loss

Power loss (typical) during 24 V DC operation	390 mW
Power loss (typical) during 24 V AC operation	530 mW

Classifications

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

Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way.



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Accessories

P/N	Designation
110727	Labeling plate for KMA-F8
110728	Connecting bridge, 10 pole

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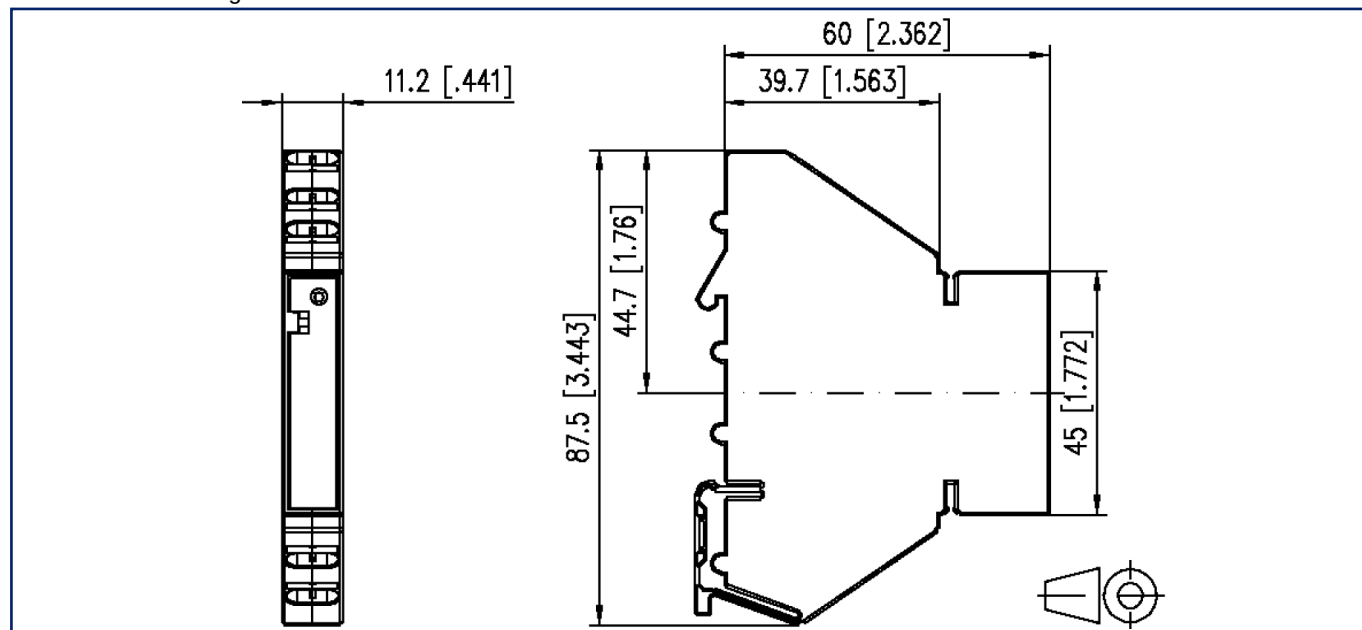
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