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METZ CONNECT
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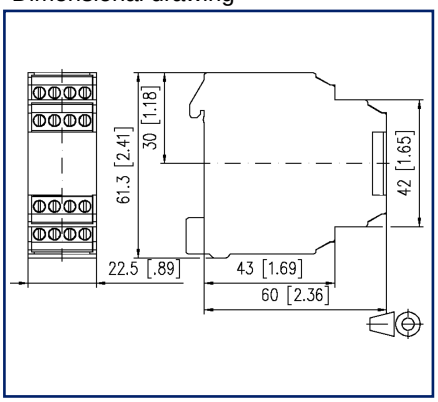
Data sheet
DRIW-E16, 24 V AC/DC

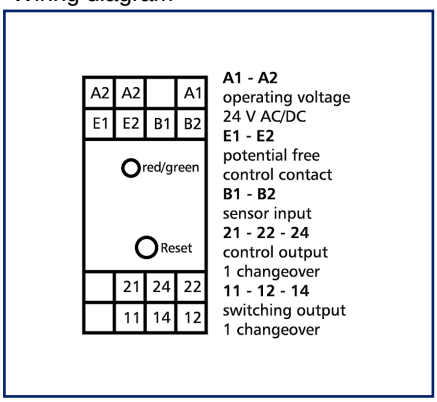
P/N 1101501322
EAN 4250184120308
2023/06/20
Version: B

Illustrations

Dimensional drawing



Wiring diagram



See enlarged drawings at the end of document

Product specification

The speed and V-belt monitor is used for monitoring the rotary movement (insufficient speed) of motor and V-belt driven shafts. Inductive proximity switches are used for capturing the speed. Pulses are generated by the sensor without contact by means of driven control cams, toothed wheels, segmented discs, metal signal flags or similar. The relay is activated when the operating voltage is applied. After start-up bridging has finished, the monitoring function is started on the E1 and E2 terminals by means of the power contactor of the drive. When the drive speed falls below the switch-off speed, the relay is deactivated. The fault message of the speed or V-belt monitor is reset by means of the reset function und by switching off the operating voltage.

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Technical Data

Supply	
Operating voltage	24 V AC/DC -10% ... +10%
Frequency range	50 ... 60 Hz
Duty cycle relative	100 %
Recovery time	400 ms
Inputs	
Release time typical	85 ms
Outputs	
Contacts	2 changeover contacts
Contact material	AgNi
Switching voltage (max.)	250 V
Continuous Current	6 A
Switching frequency	1200 switching cycles/h
Mechanical life	$1x10^7$ switching cycles
Electrical life	$1x10^5$ switching cycles
Indicator	green and red LED
Insulation coil - contact set	
Nominal voltage of the power supply system	230 / 400 V AC
Overvoltage category	III | II
Degree of pollution	2 | 2
Rated test voltage	4 kV | 2.5 kV
Type of insulation	basic insulation | reinforced insulation
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

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Technical Data

Terminal blocks	
Wire cross section solid	0.2 mm² - 2.5 mm² / AWG 22-12
Wire cross section multi	0.25 mm² - 2.5 mm² / AWG 22-12
Wire cross section with wire ferrule	0.25 mm² - 2.5 mm² / AWG 22-12
Screw torque (max.)	0.5 Nm
Stripping length (min.)	8 mm
Material	
Material - Housing	Polyamid 6.6 V0
Color	gray
Material - Terminal block	Polyamid 6.6 V0
Material - Covers	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
Temperature range	
Operating	
Temperature - Operating °C	0 °C - 55 °C
Temperature - Operating °F	32 °F - 131 °F
Storage	
Temperature - Storage °C	-20 °C - 70 °C
Temperature - Storage °F	-4 °F - 158 °F
Classifications	
ETIM 7.0	EC001448
ETIM 8.0	EC001448
ETIM 9.0	EC001448

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Accessories

P/N	Designation
110146	Mounting bracket HWR
110149	Two-wire Sensor (5 to 60 V DC)
110151	Mounting bracket HWF

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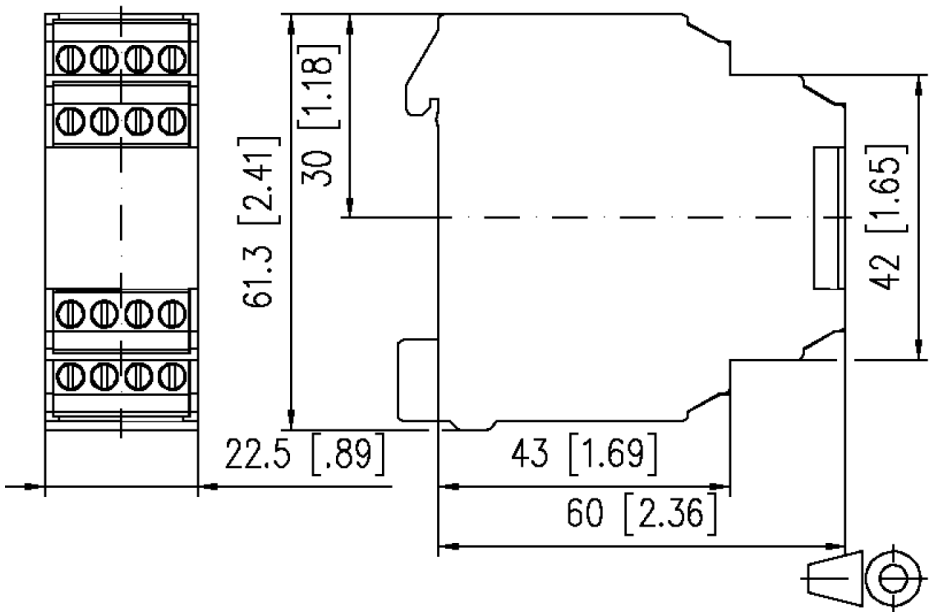
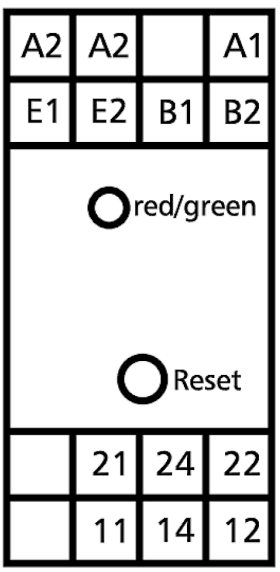
Illustrations

Dimensional drawing



Wiring diagram



A1 - A2
operating voltage
24 V AC/DC
E1 - E2
potential free
control contact
B1 - B2
sensor input
21 - 22 - 24
control output
1 changeover
11 - 12 - 14
switching output
1 changeover

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Function diagram