SPEED MONITORING

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KIEPE

EDW 600

Electronic Speed Monitor for Materials Handling

 # 93.057 639.001

- Detection and Evaluation of Overspeeds and Sub-Speeds up to 6000 rpm
- Temperature Range from -40°C to +70°C
- Multi-Supply Voltage
- For 2-Wire and 3-Wire Pulse Transducers
- Uncomplicated, manual Setting directly on the Device

Function

In the latest generation of speed monitoring, the Kiepe EDW 600, has six different functions for sub-speed and overspeed detection with additional switch-off delay. These functions can be easily manually set on the product. The EDW 600 has a manual and automatic run-up bridge. Additionally, the product indicates the output status of the output relay via LED signal lamp.

Special Features

The EDW 600 can be connected to three (3) different supply voltages. In addition, the Kiepe device is easy to operate and requires no programming. Despite its compact design, it also has a plug-in system that makes installation and replacement of the contact blocks simple and time-saving. In addition, the device has a wide temperature application range.

Sensors

2-wire NAMUR or 3-wire pulse transducers can be connected. The EDW 600 is the supply unit for the applied pulse transducer and monitors its returning signal. This gives the user the possibility to use the EDW 600 in existing or new systems without any issues, no matter if NPN-/PNP- or NAMUR-sensors according to EN 60947-5-2 and EN 60947-5-6.

Application area

Due to its wide temperature range, the EDW 600 can be used inside or in outdoor applications. Water and dust protected by a junction box. It can be mounted directly in the near of the drive in the outdoor area and transmit its output signal to the control room via unshielded transmission lines. Due to its simple setting options, the limit values of the conveyor system can be set directly on site without any additional programming

CE RoHS

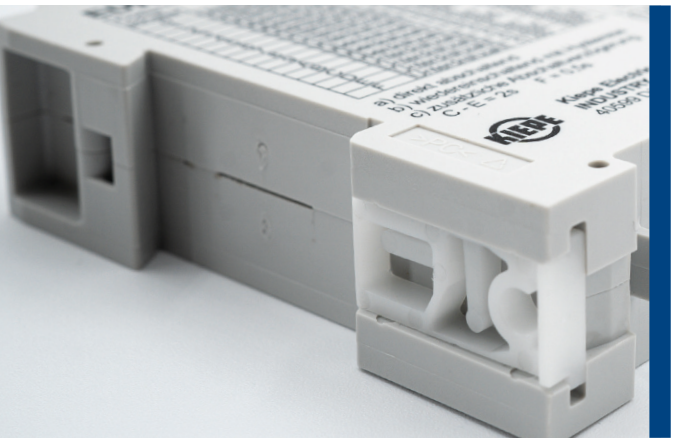
INDUSTRY

Product Data

Classification	Speed Monitor with Run-Up Bridge (Low Voltage Switch Gear)
Standards	EN 60947-5-1, DIN EN IEC 61000-6-2 DIN EN 61000-6-3, DIN EN IEC 63000
Certificates	CE, RoHS
Voltage Supply	Multivoltage
Connectable Sensors	3-Wire-NPN-, PNP-Sensor or 2-Wire-NAMUR-Sensor
Output	1x Change Over Relay Contact
Run-Up Bridge	0 to 60 Seconds, adjustable & manual Start at the Front
Switch Hysteresis	Adjustable
Status Indicator	LED at Front
Connection	4 Plug-in Terminal Blocks, each with 4 Screw Terminals
Wire Cross-Section	0,5 mm^2 ... 2,5 mm^2
Operating Temperature	– 40 °C to + 70 °C, 5 % ≤ rF ≤ 95 %
Protection Type Casings / Clamps	IP 20 according to EN 60529
Shock Resistance (EN 60068-2-27)	15 g, t = 11 ms
Vibration Resistance (EN 60068-2-6)	0,7 g (3-100 Hz)
Mounting	Top Hat Rail according to EN 60715
Measurements	23 mm x 103,6 mm x 123 mm
Weight	0,2 kg
Rated Insulation Voltage $_{Ui}$	AC 230 V
Rated Impulse Withstand Voltage U_{imp}	2.5 kV
Overvoltage Category / Altitude	II / 2000 m a.s.l. NN
Degree of Pollution	2

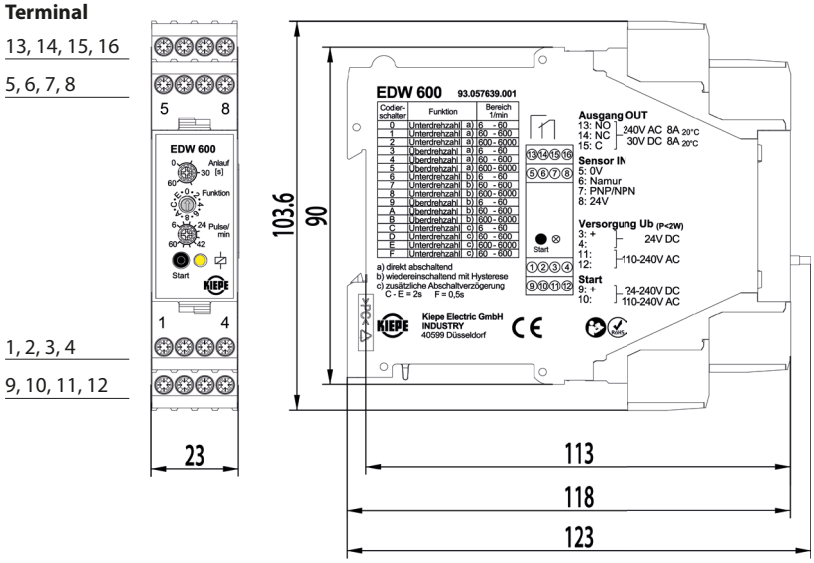
Voltage Supply	**Terminal 3 (+), 4 (-)** DC 24 V +/- 15 %, stabilized **Terminal 11 (L1), 12 (N)** AC 110 V - 240 V +/- 15 %; 50 to 60 Hz
Sensor Input Input Voltage Switching Points	**Terminal 9 (+), 10 (-)** DC 24 V to DC 240 V, AC 110 V to 240 V, 50 to 60 Hz U_{DC} > 15 V; U_{AC} > 50 V
Sensor Input 3-Wire-NPN-, PNP-Sensor 2-Wire NAMUR-Sensor Frequency Range Minimum Impulse Duration	**Terminal 5 to 8** 24 V, max., 50 mA According to EN 60947-5-6 (DIN 19234) 0 to 100 Hz ≥ 2 ms
Relay Contact Use Categories Switching Voltage Switching Current / Continuous Thermal Current Switch Hysteresis Relay Response Time Electrical Operating Life	**Terminal 13, 14, 15** AC-15 / DC-13 ≤ 250 V AC / ≤ 2 kVA ≤ 30 V DC / ≤ 30 W 8 A (bei T_U ≤ 35 °C) 15 % (Default), Adjustable from 3% to 25% 200 ms 1 x 10^5 Operations

Mounting



The top hat rail enables quick and easy mounting of the switch in the existing control cabinet. The speed monitor is first placed on the top hat rail with the mounting edge and then pressed onto the top hat rail until the catch engages.

Dimensions



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