

## WD534400

### MONITORS • ROTATION SPEED MONITORS

The monitoring of rotation speed or rotating movements is necessary in many applications to ensure the proper operation of the plant. Our rotation- and zero speed monitors operate according to different operating principles: 1. Monitoring of pulses of a transducer via a current transformer, 2. Frequency measurement of the phase current. Our devices feature, depending on the type, a wide variety of functions. For a further evaluation in a higher-level control, the results are i.e. outputted as easy relay contact (over-/underspeed) or as analog output signal resolved to the set rotation speed range.



#### MECHANICAL DATA

Ambient temperature (MAX)	60 °C
Ambient temperature (MIN)	-20 °C
Degree of protection (IP)	IP20
Depth	97 mm
Height	90 mm
Housing material	Plastic
Mounting method	DIN rail (top hat rail) 35 mm
Storage temperature	60 °C
Storage temperature	-20 °C
Suitable for DIN rail (top hat rail) mounting	Yes
Width	22.5 mm

#### ELECTRICAL DATA

Input voltage at AC 50 Hz (MAX)	253 V
Input voltage at AC 50 Hz (MIN)	184 V
Input voltage at DC (MAX)	28.8 V
Input voltage at DC (MIN)	20.4 V
Measuring range rotational speed (MAX)	120000 1/min
Measuring range rotational speed (MIN)	1 1/min
Minimum pulse length	0.02 ms
Number of outputs	2
Number of outputs, signaling function, undelayed, with contact	2
Power consumption	4 VA
Rated control supply voltage $U_s$ at AC 50HZ (MAX)	253 V
Rated control supply voltage $U_s$ at AC 50HZ (MIN)	184 V
Rated control supply voltage $U_s$ at DC (MAX)	28.8 V
Rated control supply voltage $U_s$ at DC (MIN)	20.4 V
Readiness delay	400 ms
Rotation speed monitoring function	Yes
Setting procedure	Parameterization

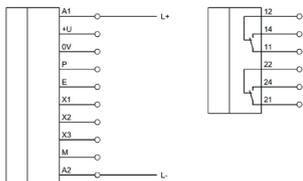
## ELECTRICAL DATA

Standstill monitoring function	Yes
Start-up delay time	50 s
Start-up delay time	1 s
Suitable for safety functions	No
Switching current	3 A
Switching voltage	230 V
Transducer power supply current	20 mA
Transducer power supply voltage	24 V
Type of electrical connection	Clamp
Type of switching function	Change-over contact
Type of switching output	Relay contact
Type of transducer power supply voltage	DC
Voltage type for actuation	DC
With LED display	Yes

## OTHER DATA

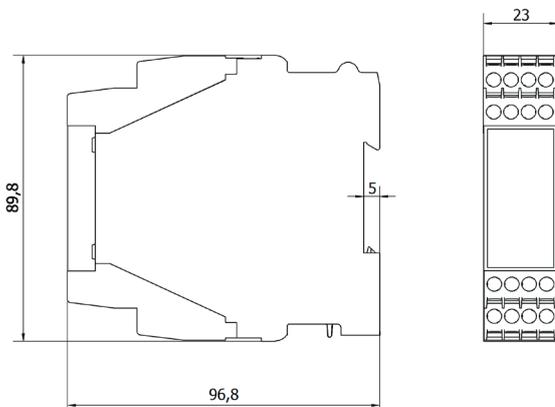
Multifunctional device	Yes
SIL in acc. with IEC 61508	0
With start-up delay	Yes
With transducer power supply	Yes

## CONNECTION



**Colors: Functions:** A1 = L+, +U = 24 V, 0V = 0V, P = measurement input, E = measurement input, A2 = L-, X1 - X3 = programming, M = 0V, 11 = common, 12 = relay NC, 14 = relay NO, 21 = common, 22 = relay NC, 24 = relay NO

## DIMENSIONAL DRAWING



## INSTALLATION

## DISPOSAL



Mounting / Installation may only be carried out by a qualified electrician!

**SAFETY WARNINGS**

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!

Never use these devices in applications where the safety of a person depends on their functionality.