

## WD720900

### 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)	70 °C
Degree of protection (IP)	IP20
Depth	76 mm
Height	91 mm
Housing material	Plastic
Mounting method	DIN rail (top hat rail) 35 mm
Storage temperature	70 °C
Storage temperature	-25 °C
Suitable for DIN rail (top hat rail) mounting	Yes
Width	72 mm

#### ELECTRICAL DATA

Input voltage at DC (MAX)	30 V
Input voltage at DC (MIN)	10 V
Max. input frequency for asymmetric pulses, TTL level	350 kHz
Max. input frequency for symmetric pulses in RS422	1000 kHz
Minimum pulse length	0 ms
Number of outputs	3
Operating frequency (MAX)	1000000 Hz
Operating frequency (MIN)	0.1 Hz
Power consumption	70 VA
Rated control supply voltage $U_s$ at DC (MAX)	30 V
Rated control supply voltage $U_s$ at DC (MIN)	17 V
Rotation speed monitoring function	Yes
Setting procedure	Parameterization
Standstill monitoring function	Yes
Start-up delay time	128 s
Start-up delay time	1 s
Switching capacity	60 VA
Switching current	2 A
Switching voltage	230 V

**ELECTRICAL DATA**

Transducer power supply current	200 mA
Type of analog output	0 V ... 10 V / 4 mA ... 20 mA / 0 ... 20 mA
Type of electrical connection	Screw connection
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 communication interface, RS-232	Yes
With display	Yes

**OTHER DATA**

Multifunctional device	Yes
With start-up delay	Yes
With transducer power supply	Yes

**DIMENSIONAL DRAWING**

**INSTALLATION**



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

**DISPOSAL**



**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.