IPF FI FCTRONIC

dimensions 22

22.5 x 90 x 97mm

1 ... 120,000 pulses/minute

- recognition of overspeed or underspeed/ standstill (function switchable)
- √ adjustable hysteresis 0.5 ... 50%
- √ adjustable start-up bypass time 0 ... 50s
- √ status LED f
 ür auxiliary voltage, measuring input and output relay
- ✓ 2 change-over contacts, closes current principle (relay drops out in case of alarm)
- universal input, for various sensors configurable
- ✓ responsive even with with lower rotation speeds

AC and DC voltage supply



description

The monitoring of rotation speeds or rotating movements is required in many applications to ensure the proper operation of a system. This device monitors the pulses of a sensor (e.g., inductive, capacitive, or optical) that can be connected directly to the monitor. Maximum 20mA are available.

The sensor input is monitored using a 2-color LED (green / yellow). After applying the operating voltage and the startup delay (0 ... 50s), the incoming pulses are compared with the set reference speed. For this purpose, 10 measuring ranges can be selected, each of which can be finely adjusted by means of a potentiometer.

For further evaluation in a higher-level control, the results are output via the two relay contacts (over / under speed) according to the settings made.

Further information can be found in the instruction manual enclosed with each device.

application examples

- ▶ Monitoring of a minimum rotation speed
- Monitoring of a maximum rotation speed
- ► Report of a standstill
- Motion signal for transport chains with a pulse wheel

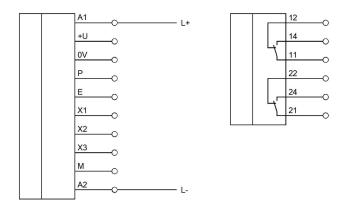
EVALUATION SYSTEMS





	WD534400
version	rotation speed and zero speed monitoring
	96,8
TECHNICAL DATA	
LILE IDICAL DATA	
	1 120 000/min
measuring range rotation speed	1 - 120.000/min 184 - 253V
measuring range rotation speed input voltage at AC 50 Hz	184 253V
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC	184 253V 20.4 28.8V
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption	184 253V 20.4 28.8V 4VA
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time	184 253V 20.4 28.8V 4VA 400ms
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage	184 253V 20.4 28.8V 4VA 400ms 24V DC
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current min. pulse length	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA 0.02ms
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current min. pulse length start-up bypass time	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA 0.02ms 1 50s
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current min. pulse length start-up bypass time switching output	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA 0.02ms 1 50s relay contact
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current min. pulse length start-up bypass time switching output switching function	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA 0.02ms 1 50s
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current min. pulse length start-up bypass time switching output switching function number of outputs	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA 0.02ms 1 50s relay contact change-over contact
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current min. pulse length start-up bypass time switching output switching function number of outputs switching voltage	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA 0.02ms 1 50s relay contact change-over contact 2 230V
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current min. pulse length start-up bypass time switching output switching function number of outputs switching voltage switching current	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA 0.02ms 1 50s relay contact change-over contact 2 230V 3A
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current min. pulse length start-up bypass time switching output switching function number of outputs switching voltage switching current with status LED	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA 0.02ms 1 50s relay contact change-over contact 2 230V 3A yes
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current min. pulse length start-up bypass time switching output switching function number of outputs switching voltage switching current with status LED with display	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA 0.02ms 1 50s relay contact change-over contact 2 230V 3A yes neo
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current min. pulse length start-up bypass time switching output switching function number of outputs switching voltage switching current with status LED with display adjustment	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA 0.02ms 1 50s relay contact change-over contact 2 230V 3A yes
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current min. pulse length start-up bypass time switching output switching function number of outputs switching voltage switching current with status LED with display adjustment	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA 0.02ms 1 50s relay contact change-over contact 2 230V 3A yes neo parameterization
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current min. pulse length start-up bypass time switching output switching function number of outputs switching voltage switching current with status LED with display adjustment connection	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA 0.02ms 1 50s relay contact change-over contact 2 230V 3A yes neo parameterization screw connection
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current min. pulse length start-up bypass time switching output switching function number of outputs switching voltage switching current with status LED with display adjustment connection	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA 0.02ms 1 50s relay contact change-over contact 2 230V 3A yes neo parameterization screw connection
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current min. pulse length start-up bypass time switching output switching function number of outputs switching voltage switching current with status LED with display adjustment connection MECHANICAL DATA dimensions housing material	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA 0.02ms 1 50s relay contact change-over contact 2 230V 3A yes neo parameterization screw connection 22.5 x 90 x 97mm plastic
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current min. pulse length start-up bypass time switching output switching function number of outputs switching current with status LED with display adjustment connection MECHANICAL DATA dimensions housing material degree of protection (IP)	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA 0.02ms 1 50s relay contact change-over contact 2 230V 3A yes neo parameterization screw connection 22.5 x 90 x 97mm plastic IP20
measuring range rotation speed input voltage at AC 50 Hz input voltage at DC current consumption power-on delay time encoder supply voltage encoder supply current min. pulse length start-up bypass time switching output switching function number of outputs switching voltage switching current with status LED with display adjustment connection MECHANICAL DATA dimensions housing material	184 253V 20.4 28.8V 4VA 400ms 24V DC 20mA 0.02ms 1 50s relay contact change-over contact 2 230V 3A yes neo parameterization screw connection 22.5 x 90 x 97mm plastic

connection



colors:

A: 1= BN (brown), 2= WH (white), 3= BU (blue), 4= BK (black)

B: 1= BN (brown), 2= WH (white), 3= BU (blue), 4= BK (black)

functions:

A: 1= L+, 2= PNP NO, 3= L-, 4= PNP NO

B: 1= L+, 2= PNP NC, 3= L-, 4= PNP NC

EVALUATION SYSTEMS

MONITORS 2200



NOTES

