

### WS200120

**Monitors** 

Rotation speed and zero speed monitoring

I monitoring of rotation speed and frequency undershoot

I direct adaption between sensor and cable socket

I rotation speed and frequency adjustable

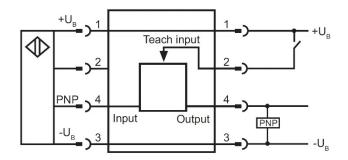


easy programming via external teach-in no additional installation necessary

### **TECHNICAL DATA**

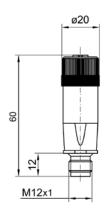
dimensions	Ø20 x 60mm
frequency range	0.015 1000Hz
operating voltage	10 30V DC
residual ripple	≤ 10% of U <sub>B</sub>
current consumption (w/o load)	< 10mA
input resistance	> 10kΩ
switching output	PNP transistor
output current (max. load)	400mA
short-circuit protection	+
display (function)	LED red
input frequency (impulse:pause = 1:1)	≤ 1kHz
temperature (operating)	0 60°C
temperature (storage)	-20 +60°C
degree of protection	IP 67 (EN 60529)
housing	plastic PBTP / PA
connection	M12-socket / M12-connector, 4-pin

## Connection



Colors: 1 brown, 2 white, 3 blue, 4 black

# **Dimensional drawing**





#### **Function**

The rotation speed monitor WS200120 monitors the frequency of the signals of the sensor that is connected. The output is activated as soon as the adjusted frequency falls below approx. 5%.

# **Adjustment**

- 1. Align a suitable sensor with the WS200120 to the object to be detected in a way that the sensor switches safely.
- 2. Move the object in the nominal speed.
- 3. Connect the teach-input to  $+U_B$  at least for the time of a complete motion cycle.
- 4. Disconnect the teach-input from +U<sub>B</sub>.
- 5. Ready. If the input frequency drops by 5%, the output of the WS200120 is activated.

## **Applications**

- Zero speed monitoring
- Rotation speed monitoring
- Jam monitoring

## **SAFETY WARNINGS:**

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

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