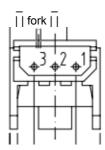


# measure rotational speed + direction

## **Transmissive Optical Sensor**

TCYS5201





- 1: GND
- 2: out
- low when not interrupted
- floating when interrupted

=> pullup needed 3: (2.9V) - 5.5V

## optical-sensor axle => control-box

#### 2 cables (one for each axle): Oelflex 5x0.5

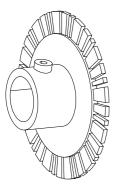
gn: GND

01: 3V3 [unused]

02: 5V

03: Sensor out (drain)

04: [unused] 05: [unused]



#### **Custom Encoder disk**

mounted on each Axle

To be able to detect the direction of rotation the disk has 12 groups of segments with 3 different lengths (ratio 1:2:3) with a constant gap between each segment

