SD-VI0206-000   Inductive speed sensor

Function

➤ Sensor reacts to crossing metal parts (e.g. screws or parts of the brake disc)

➤ Induction signals are measured and counted.

Appropriate signal donators

➤ Screws of the brake disc

➤ Parts of the brake disc itself

➤ Additional mounted parts

connect with Box1, Box2 or with original 2D loom

Signal detection

Inductive pulse sensor: SD-VI0206-000

Technical specifications

Electrical characteristics

Supply voltage........................	12	V
Maximal switch frequency....... (with impulse ratio 50:50)	1000	Hz

Measure distance:

steel............	max.	6	mm
alloy............	max.	3	mm
stainless.....	max.	4.8	mm
aluminium...	max.	2.5	mm

Mechanical characteristics

Dimensions............................	28 x 16.4 x 10.2
Housing material....................	synthetic material
Weight...................................	5 g

Cable & Connector

type..........................	PVC
wire cross-section.....	$3 \times 0{,}14$ mm^2
length........................	1300 mm
connector (standard)	Binder 719 4PM

Environmental data

Ambient operating range........	-25 to +80 °C

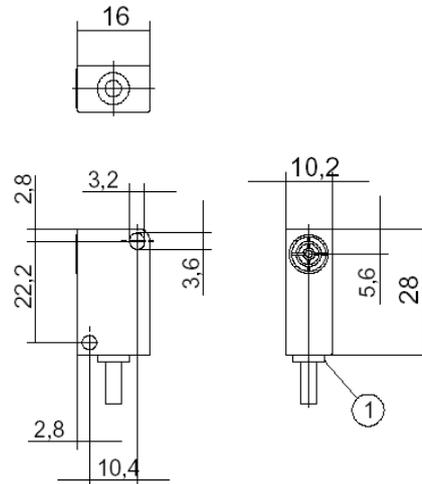### Ordering information

Art.No.:................................... SD-VI0206-000

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Dimensions

Installation advice

- Same distance between all signal donators
- Radius of the signal donators shouldn't be too big ($\rightarrow$ pulses too short)
- Use signal donators with sharp edges and a flat surface (no inbus or lensescrews)
- They should consist of an appropriate material (metal should work when the signal donator has a maximum distance of 6mm to steel)
- Optimum distance is 4 to 5mm
- Using aluminium, magnesium, or titanium as signal donators reduces the distance to 2 mm
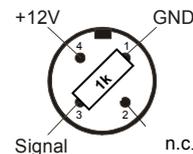
Formulas

- Choose the formula below from sensor list, open parameter and put inside the circumference of the tyre and the number of pulses.
- SD-VI0206-000

Connector layout

Pin	Name	Color
1	GND	Blue
2	n.c.	-
3	Signal	Black
4	+12V	Brown

Connector type

719 4-pin / male (backside)
color blue

Attention: Do not modify the connector resistor inside !

Possible options concerning connector and cable on customer request !

Please note:
For the first order of special customer options please use the following order code: **SD-VI0206-000**
After the first order you will get from 2D a uniquely order code for your next orders.