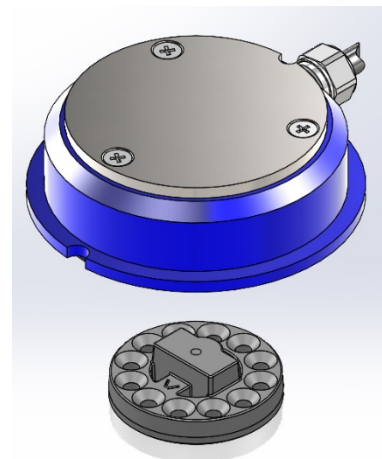


Special features

- Contactless measuring principle
- Integrated signal amplifier
- Redundant design for safety-relevant applications
- Approval according to ECE-R10
- Two-part design for direct integration into bearing arrangements
- Extremely robust construction
- Long service life
- High resolution
- Available in different housing versions (see order code)



Electrical data

Signal output range	0,25 V ... 4,75 V	4 mA ... 20 mA
Supply voltage	+9 VDC +34 VDC	+9 VDC +34 VDC
Current consumption	25 mA typical	max. 60 mA
Output current	≤ 1 mA *)	-
Working resistance	-	max. 250 Ω
External voltage at signal output	≤ 34 V	≤ 34 V
Resolution	12 Bit	12 Bit
Repeat accuracy	≤ 0,1°	< 0,2% of working range **)
Linearity (related to the measuring range)	≤ ±0,75 %	- ±1 %

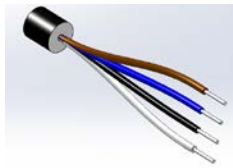
*) ≤ 0,05 mA for specified accuracy
 **) after noise reduction

Environmental properties (ISO16750)

Protection class (ISO 20653) Housing/cable entry	IP6K6K / IP6K8 (1m;12h) / IP6K9K (deviations possible depending on housing design.)
Operating temperature	-40 °C to +85 °C (deviations possible depending on the cable/connector used)
Storage temperature	-40 °C to +85 °C (deviations possible depending on the cable/connector used)
Vibration resistance	(in preparation)
Random vibrations	10 ... 2000 Hz average acceleration 57.9 m/s ²
Sinusoidal oscillations	35 Hz, 100 ... 300 m/s ²
Shock resistance	500 m/s ² Half sine 6 ms (in preparation)

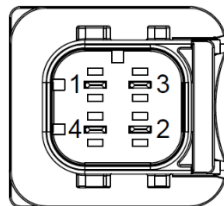
Electrical connection

4 wire cable with open end



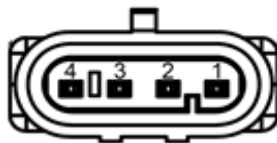
Wire color	Assignment
brown	Supply +U _B
black	Out A
white	Out B
blue	Ground GND

4-pin HDSCS connector (TE Connectivity 2-1703818-1, contacts tin plated)



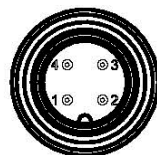
Pin	Assignment
1	Ground GND
2	Out A
3	Supply +U _B
4	Out B

4-pin connector AMP-Superseal (1.5 Series 282106-1, contacts tin plated)
(operating temperature -30°C ... +85°C)



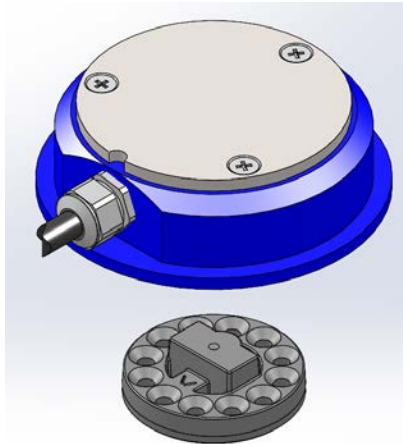
Pin	Assignment
1	Supply +UB
2	Out A
3	Out B
4	Ground GND

4-pole M12 connector (Lumberg Automation - Type: RST, contacts gold plated)



Pin	Assignment
1	Versorgung +U _B
2	Out B
3	Masse GND
4	Out A

**2-part design for integration in bearing arrangements
without grease lubrication pressure**



Housing Ø66 mm

Mechanical data

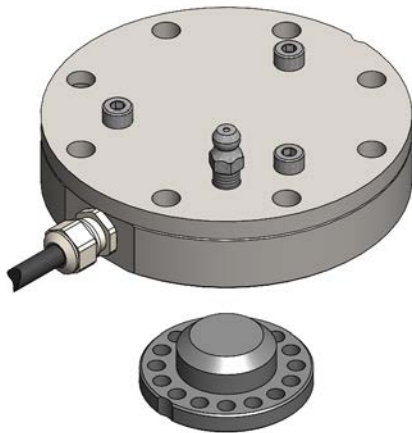
Lifetime	Wear-free
Mechanical setting angle	360° rotatable
Corrosion resistance	
Magnetic carrier:	Plastic
Housing:	Aluminium alloy, anodised
Cover:	Stainless steel
Cable gland:	Brass, nickel-plated
Installation area	The angle transducers are not suitable for installation areas with grease lubrication pressure!

Definition of rotational direction

View on the back side of the transducer and steady magnet carrier unit, clockwise rotation of the transducer results in an increasing signal OUT A and a decreasing signal OUT B.
(Deviating signal gradient on request).



2-part design for integration in steering knuckle bearing arrangements with grease lubrication pressure



Housing Ø85 mm



Housing Ø55 mm

Mechanical data

Lifetime	Wear-free
Mechanical setting angle	360° rotatable
Corrosion resistance	
Magnetic carrier:	Aluminium alloy
Housing:	Stainless steel
Cover:	Stainless steel
Cable gland:	Brass, nickel-plated
Installation area	The angle transducers are suitable for installation areas with grease pressure of up to 80 bar.

Definition of rotational direction

View on the back side of the transducer and steady magnet carrier unit, clockwise rotation of the transducer results in an increasing signal OUT A and a decreasing signal OUT B.
(Deviating signal gradient on request).



