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Technical Information

GEL 2476

Incremental Bearingless Rotary Encoders

1-/2-Channel Hall-Effect Speed Sensor with Voltage or Current Output and Standstill Voltage

D-51T-2476 | Status 2026-07-07

LENORD +BAUER

Finding solutions.
Founding trust.

Motion sensors and integrated drive technology

General Information

- Maintenance-free and wear-free Speed Sensor based on magnetic sensing
- Detection of measurement elements (e.g., target wheels made of ferromagnetic materials)
- Reliable detection of high rotational speeds down to creeping movements (0 Hz…20 kHz)
- Most reliable rotation direction detection and standstill detection at power-on
- Large permissible sensing distance simplifies design and installation



Features

- Incremental, differential-measuring 1-/2-channel Speed Sensor based on the magnetic measurement principle
- Highest signal quality for reliable evaluation in control systems
- Maximum compatibility thanks to voltage or current output as well as Standstill Voltage
- High EMC immunity for interference-free signal transmission in demanding industrial environments
- Configuration flexibility through freely selectable cable exit, cable protection, and connector options
- Compliant with a wide range of standards and requirements for a variety of applications:
see „Technical Data - Environmental Testing“, page 11

Advantages

- Optimized lifecycle cost
- Maintenance-free and wear-resistant
- Wide range of configuration options
- Compact and robust construction type
- Easy integration
- Easy to install
- High signal quality
- Wire break monitoring
- Galvanically isolated measurement systems
- Well-suited for safety applications

Do you have specific requirements regarding the flange shape, tube length, number of channels, cable protection, cable outlet, connector assembly, or the EMC design? Please contact us. Our experts can create the optimal solution for your application from an extensive modular system and will be happy to advise you on the most cost-effective custom adaptation.

support@lenord.de or +49(0)208 9963-215

Applications

Industry & Automation

Printing & Packaging Machines:
- Synchronization of Conveyor Belts
- Register control in printing

Automotive & Commercial Vehicles

Vehicle Drivetrains:
- RPM measurement on crankshafts and camshafts for engine control units
- Rotor position detection in electric motors (BLDC, PMSM)
- Input/output speed in the transmission for shift strategy

Vehicle Dynamics Systems:
- Wheel speed sensors for ABS/ESP
- Torque distribution in all-wheel-drive systems

Commercial Vehicles & Agricultural Machinery:
- Speed monitoring on PTOs, hydraulic pumps
- Harvesting Machinery: Conveyor screws, threshing drums

Rail Technology & Transportation

Rail vehicles:
- Wheel speed sensors for slip control and brake control
- Drive control for electric locomotives and railcars

Conveyor and cable cars:
- Speed monitoring on idler pulleys
- Synchronization of drives in multi-motor systems

Marine applications

Drive:
- Speed measurement on marine engines, turbochargers, gearboxes, and generators

Auxiliary units:
- Input/output speed measurement for slip monitoring

Energy & Utilities

Wind turbines:
- Rotor speed for power control
- Pitch adjustment (blade angle control)

Hydroelectric Power Plants / Turbines:
- Speed control for synchronization with grid frequency

Generators & emergency power systems:
- Speed measurement for frequency monitoring and load management

Building Services & Infrastructure

Elevators & escalators:
- Cabin speed and position
- Safety Systems (Emergency Stop in Case of Overspeed)

Building equipment:
- Pump and fan speeds in large HVAC systems

Logistics & Conveyor Technology

Conveyor belts:
- Speed control in distribution centers

Automated Storage Systems:
- Positioning of Storage and Retrieval Machines

Crane Systems:
- Hoist and Traverse Control

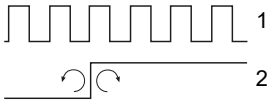
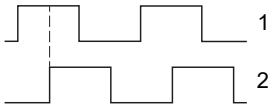
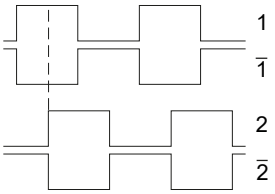
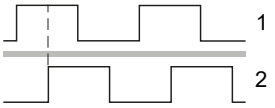
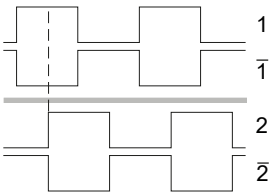
Technical Data: Voltage Output

Signal Pattern	E-	S-	V-	X-	D-	H-
Electrical Data						
Supply voltage U_B (reverse polarity protected)	10 ... 30 V DC					
Current consumption I_B (no load)	≤ 30 mA					
Output signal (short-circuit-proof)	Square-wave signals					
Output signal level (High) (1)	≥ U_B - 1.5 V					
Output signal level (Low) (1)	≤ 1.0 V					
Output current per channel	≤ 20 mA					
Frequency range	0 ... 20 kHz					
Duty cycle	50% ± 10% (2)					
phase offset	–		typ. 90°			
Mechanical Data						
Sensor tube material	Stainless steel					
Flange material	Stainless steel					
Sensor weight (including 2 m cable)	500 g					
Cable						
Connection	Cable exit: straight or side-mounted; connector as specified					
Cable length	≤ 100 m					
Note on shielding	Cable shield directly attached to the sensor or optionally capacitively attached					
Environmental testing						
The Speed Sensor complies with a wide range of standards and requirements for a variety of applications: *see „Technical Data - Environmental Testing“, page 11*						
Requirements for the target wheel						
Material	ferromagnetic steel					
Tooth Profile	Involute teeth according to DIN 867 Rectangular teeth, typically 1:1 (other ratios available upon request)					
Width	≥ 10 mm (smaller widths available upon request)					
Module m	1.00 / 1.25 / 1.50 / 1.75 / 2.00 / 2.25 / 2.50 / 2.75 / 3.00 / 3.25 / 3.50					
Air gap	*see „Air Gap Table“, page 16*					

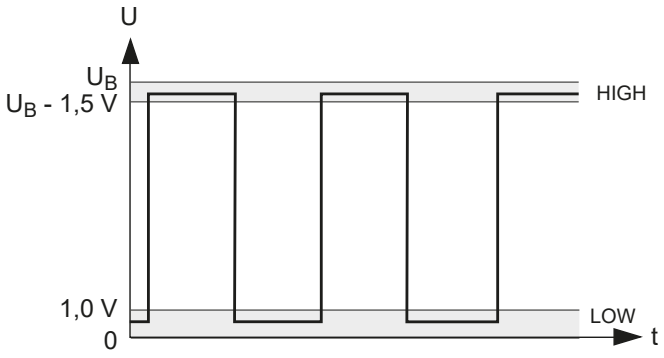
(1) Depends on output current and temperature

(2) Applies to operation at the rated air gap and with gear teeth in accordance with DIN 867

Voltage Output - Signal Pattern

Signal Pattern			
Output Signals		**Supply Voltage**	**Pulse Diagram**
E-	1 channel	10 ... 30 V DC	
S-	1 channel with direction signal ↻ forward ↺ reverse	10 ... 30 V DC	
V-	2 channels, 90° phase offset	10 ... 30 V DC	
X-	2 channels, 90° phase offset, with inverted channels	10 ... 30 V DC	
D-	2 channels, electrically isolated, 90° phase offset	10 ... 30 V DC	
H-	2 channels, electrically isolated, 90° phase offset, with inverted channels	10 ... 30 V DC	

Output signal level – voltage output



Voltage Output - Connection

Standard cable			
Signal Pattern	**E**, **S**, **V,**	**X-**	**D-** and **H-**
Cables	halogen-free and Shielded (specifications available upon request)		
Cable diameter	5.4 ± 0.2 mm	6.5 ± 0.3 mm	8.0 ± 0.3 mm
Cable cross-section	4 × 0.5 mm²	6 × 0.5 mm²	12 × 0.34 mm²
Minimum bend radius	16 mm (static) 27 mm (dynamic)	20 mm (static) 33 mm (dynamic)	24 mm (static) 40 mm (dynamic)

Pin Assignment

Follow the EMC instructions in the accompanying documents.

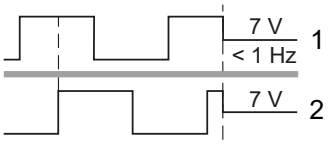
Flying lead								
Signal	**E-**	**S-**	**V-**	**X-**	**D-**		**H-**	
Channel 1	YE	YE	YE	YE	YE		YE	
Channel 2		WH	WH	WH		WH		WH
Channel 1 inverted				BK			BK	
Channel 2 inverted				BN				BN
GND (0 V)	BU	BU	BU	BU	BU	GY	BU	GY
$+U_B$	RD	RD	RD	RD	RD	PK	RD	PK
Cables / Shields	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1		1 / 1	
Cable shield directly attached to the sensor or capacitively attached. Wire color codes: **BK** black, **BN** brown, **BU** blue, **GY** gray, **PK** pink, **RD** red, **WH** white, **YE** yellow								

Technical Data: Voltage Output with Standstill Voltage

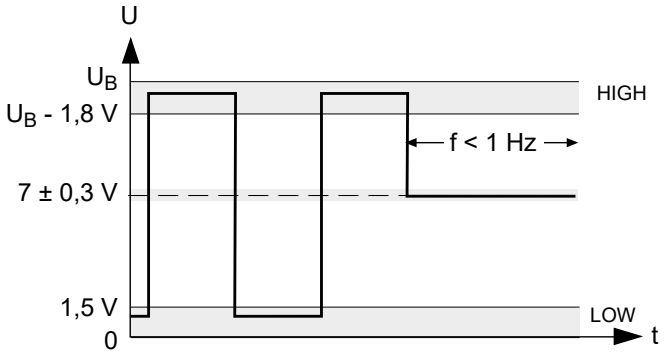
Signal Pattern	EM	DM
Electrical Data		
Supply voltage U_B (reverse polarity protected)	10 ... 20 V DC	
Current consumption I_B (no load)	≤ 15 mA	≤ 25 mA
Output signal (short-circuit-proof)	Square-wave signals	
Output signal level (High) (1)	≥ U_B - 1.8 V	
Output signal level (Low) (1)	≤ 1.5 V	
Output current per channel	≤ 10 mA	
Frequency range	0 ... 8 kHz	
Duty cycle	50% ± 10% (2)	
phase offset	-	typ. 90°
Mechanical Data		
Sensor tube material	Stainless steel	
Flange material	Stainless steel	
Sensor weight (including 2 m cable)	500 g	
Cable		
Cable	halogen-free and with a Shield (3)	
Cable diameter	5.4 ± 0.2 mm	8.0 ± 0.3 mm
Cable cross-section	4 x 0.5 mm²	12 x 0.34 mm²
Minimum bending radius (static/dynamic)	16 mm / 27 mm	24 mm / 40 mm
Note on shielding	Cable shield directly attached to the sensor or optionally capacitively attached	
Environmental testing		
The Speed Sensor complies with a wide range of standards and requirements for a variety of applications: *see „Technical Data - Environmental Testing“, page 11*		
Requirements for the target wheel		
Material	ferromagnetic steel	
Tooth Profile	Involute teeth per DIN 867 Rectangular teeth, typically 1:1 (other ratios available upon request)	
Width	≥ 10 mm (smaller sizes available upon request)	
Module m	1.00 / 1.25 / 1.50 / 1.75 / 2.00 / 2.25 / 2.50 / 2.75 / 3.00 / 3.25 / 3.50	
Air gap	*see „Air Gap Table“, page 16*	

(1) Depends on output current and temperature
(2) Applies to operation at the rated air gap and with gear teeth according to DIN 867
(3) Specifications available upon request

Output with Standstill Voltage - Output Signals and Connectors

Signal Patterns with Standstill Voltage (DM, EM)			
Output Signals		**Supply Voltage**	**Pulse Diagram**
EM	1 channel with Standstill Voltage	10 ... 20 V DC	
DM	2 galvanically isolated channels, 90° phase offset, with Standstill Voltage	10 ... 20 V DC	

Output Signal Level – Voltage Output (DM, EM)



Pin Assignment – Voltage Output (DM, EM)

Observe the EMC notes in the accompanying documents.

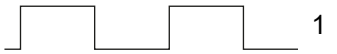
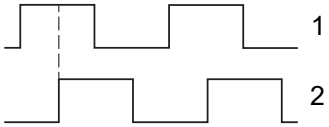
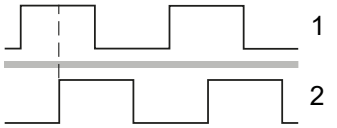
Signal	EM	DM	
Channel 1	YE	YE	
Channel 2			WH
GND (0 V)	BU	BU	GY
$+U_B$	RD	RD	PK
Cables / Shields	1 / 1	1 / 1	
Cable shield directly attached to the sensor or optionally capacitively attached Wire color codes: **BK** black, **BN** brown, **BU** blue, **GY** gray, **PK** pink, **RD** red, **WH** white, **YE** yellow			

Technical Data: Current Output

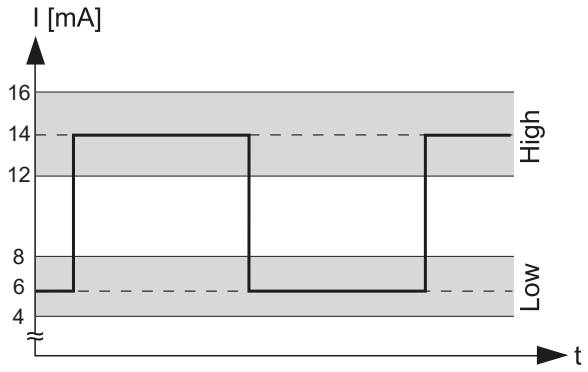
Signal Pattern	EI	DI	VI
Electrical Data			
Supply voltage U_B (reverse polarity protected)	10 ... 20 V DC		
Output signal (short-circuit-proof)	Square-wave signals		
Output signal level (High) (1)	typ. 14 mA		
Output signal level (Low) (1)	typ. 6 mA		
Output current per channel	≤ 16 mA		
Frequency range	0 ... 12 kHz		
Duty cycle	50% ± 10% (2)		
phase offset	-	typ. 90°	
Mechanical Data			
Sensor tube material	Stainless steel		
Flange material	Stainless steel		
Sensor weight (including 2 m cable)	500 g		
Cable			
Cable	halogen-free and with a Shield (3)		
Cable diameter	5.4 ± 0.2 mm		
Cable cross-section	4 x 0.5 mm²		
Minimum bending radius (static/dynamic)	16 mm / 27 mm		
Note on shielding	Cable shield directly attached to the sensor or optionally capacitively attached		
Environmental testing			
The Speed Sensor complies with a wide range of standards and requirements for a variety of applications: *see „Technical Data - Environmental Testing“, page 11*			
Requirements for the target wheel			
Material	ferromagnetic steel		
Tooth Profile	Involute teeth according to DIN 867 Rectangular teeth, typically 1:1 (other ratios available upon request)		
Width	≥ 10 mm (smaller widths available upon request)		
Module m	1.00 / 1.25 / 1.50 / 1.75 / 2.00 / 2.25 / 2.50 / 2.75 / 3.00 / 3.25 / 3.50		
Air gap	*see „Air Gap Table“, page 16*		

(1) Depends on output current and temperature
(2) Applies to operation at the rated air gap and with gear teeth per DIN 867
(3) Specifications available upon request

Current Output - Output Signals and Connectors

Signal Patterns (EI, VI, DI)			
Output Signals		**Supply Voltage**	**Pulse Diagram**
EI	1 channel	10 ... 20 V DC	
VI	2 channels, 90° phase offset	10 ... 20 V DC	
DI	2 channels, electrically isolated, 90° phase offset	10 ... 20 V DC	

Output signal level (EI, VI, DI)

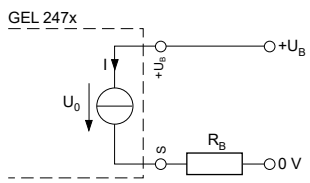


Pin Assignment (EI, VI, DI)

Observe the EMC notes in the accompanying documents.

Signal	EI	VI	DI	
Channel 1	BU	BU	BU	
Channel 2		GN		GN
$+U_B$	RD	RD	RD	YE
Cables / Shields		1 / 1	1 / 1	

Cable shield directly attached to the sensor or optionally capacitively attached
Wire color codes: **BK** black, **BN** brown, **BU** blue, **GY** gray, **GN** green, **PK** pink, **RD** red, **WH** white, **YE** yellow



U_B Supply voltage
S Signal
I_{max} Maximum output current

Measuring resistor
The measurement resistor R_B to be connected must fall within the following limits:
$R_{B,min}$ = 240 Ω
$R_{B,max}$ = (U_B – 5 V) / I_{max}
Example

with U_B = 15 V and I_{max} = 16 mA:
$R_{B,max}$ = 15 V - 5 V / 16 mA = 10 V / 16 mA
= 625 Ω

Technical Data - Environmental Testing

Lenord+Bauer's Speed Sensors are designed for a wide range of applications. During design and manufacturing, we consistently ensure the reliability and compatibility of the Speed Sensors with a wide variety of standards, and these are continuously tested.

Through the ongoing development and optimization of sensors for a wide range of applications, Lenord+Bauer has extensive experience in this field.

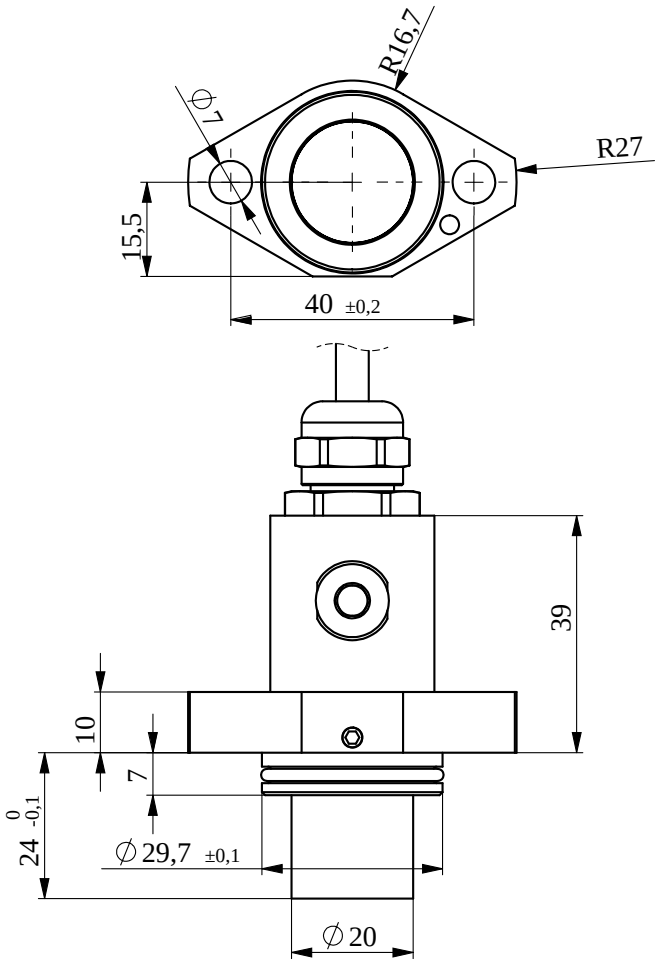
Only the minimum standards for all sensors are listed below.

If you have additional requirements regarding standards and approvals, please feel free to contact us.

	Rail Vehicle Industry	Maritime Applications	Industrial applications
Operating and working temperature	-40 °C … +120 °C		
Storage temperature	-40 °C … +120 °C		
General Industry Standard	DIN EN 50155:2022-06	DNV-CG-0339	Depending on the application
Dielectric strength	500 V AC / 750 V DC DIN EN 50155:2022-06	DNV-CG-0339	500 V AC
Electromagnetic compatibility	DIN EN 50121-3-2:2017-11	DNV-CG-0339	IEC 61000-6-2:2016 IEC 61000-6-4:2016
Vibration Resistance	DIN EN 61373:2011-04 Cat. 3	DNV-CG-0339	IEC 60068-2-64:2008 IEC 60068-2-6:2008
Shock resistance	DIN EN 61373-2011-04 Cat. 3	DNV-CG-0339	IEC 60068-2-27:2008
Fire protection	DIN EN 45545-2:2023-12 NFPA 130 upon request	IMO 2010 FTP	Upon request
Degree of protection on the measurement side (1)	IP68		
MTTF value	> 2,000,000 h at 55 °C		

(1) The degree of protection on the cable outlet side depends on the cable gland or cable protection

Mechanical Properties

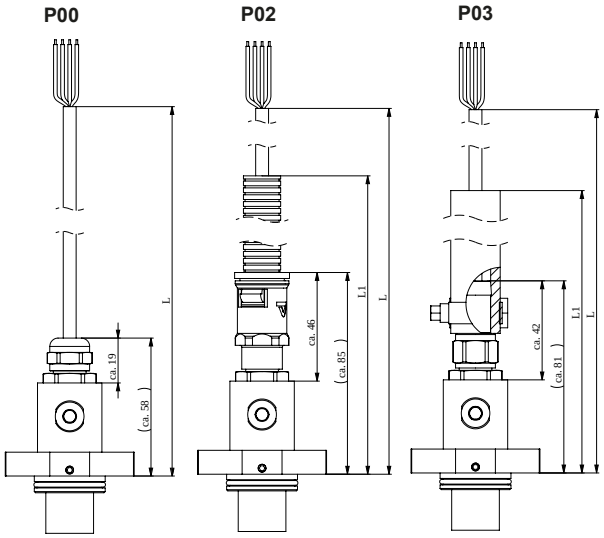
Cable outlet
Straight cable outlet Option **S** (see Type Code)
Additionally, the straight cable outlet can be connected at an angle: *see „**Straight cable exit**“, page 13*

L Cable length **L** is determined by the Type Code (tolerance depends on the length of the assembled cable)

Cable Protection at the Cable Exit	
Depending on requirements, the Speed Sensor can be equipped with various types of cable protection at the cable outlet.	
Selection **P00**	No cable protection
Option **P02**	Corrugated tube NW12
Option **P03**	Hydraulic hose DN12

Technical Data for Cable Protection		
Option	**P02**	**P03**
Type	Corrugated tube NW12	Hydraulic hose DN12
Material	Polyamide, halogen-free	Rubber compound
Outer diameter	15.8 mm	19.5 ± 0.5 mm
Minimum bend radius	35 mm (static) 80 mm (dynamic)	70 mm

Straight cable exit

Cable protection for straight cable outlet—when option **S** is selected for the cable outlet (see Type Code)

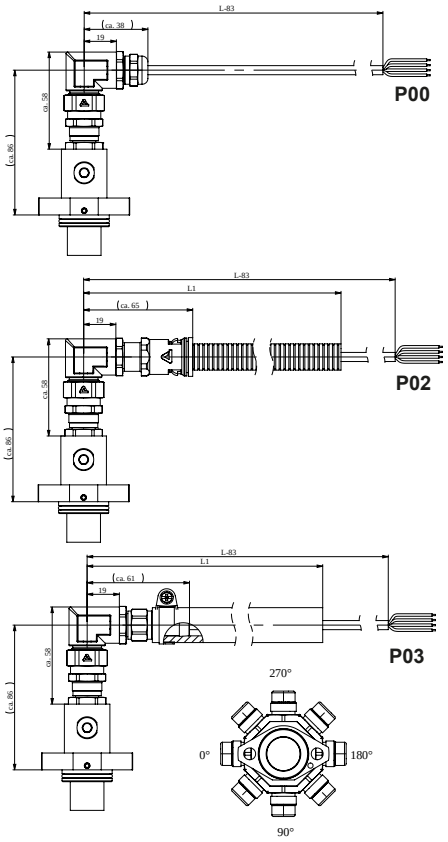


P00	Without cable protection
P02	Corrugated tube NW12
P03	Hydraulic hose DN12
L	Cable length **L** is determined by the Type Code (Tolerance depends on the assembled cable length)
L1	Protective hose length L1; depending on the cable connection and assembly, the protective hose length L1 corresponds to the cable length L minus 100 mm

Straight Cable Exit with Angle

Straight cable outlet with angle – When option **S** is selected for the cable outlet (see Type Code)

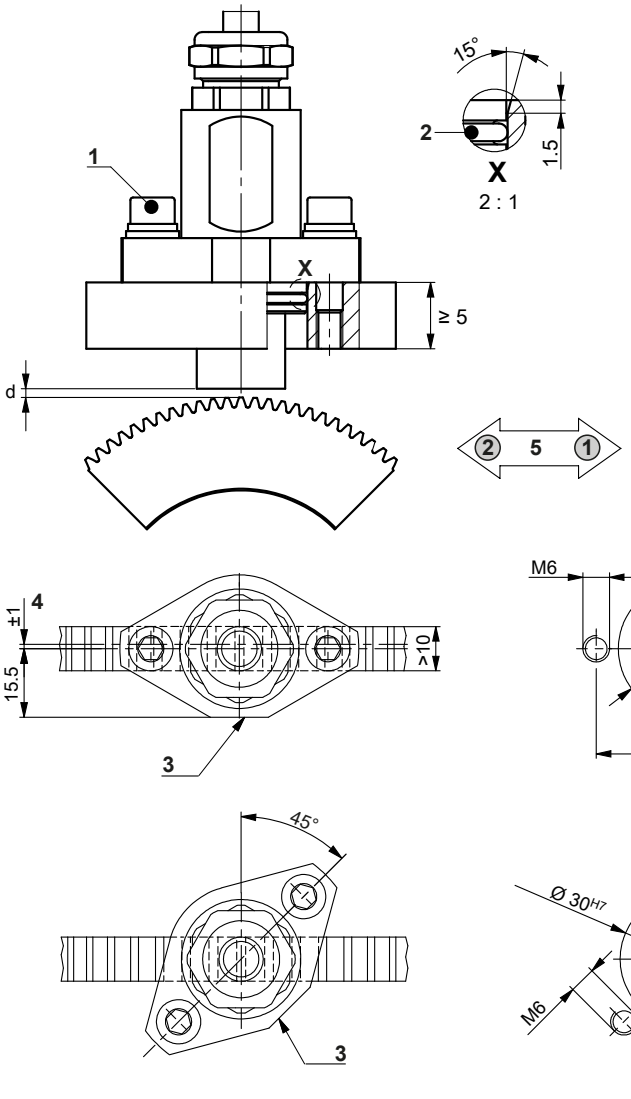
The selection can be made in 45° increments: 000°; 045°; 090°; 135°; 180°; 225°; 270°; 315° (tolerance ± 10°) (see Type Code).



P00	Without cable protection
P02	Corrugated tube NW12
P03	Hydraulic hose DN12
L	Cable length **L** is determined by the Type Code (tolerance depends on the assembled cable length)
L1	Protective hose length L1; depending on the cable connection and assembly, the protective hose length L1 corresponds to the cable length L minus 100 mm

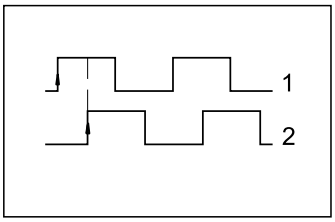
Installation Drawing

All dimensions in mm; general tolerance per DIN ISO 2768 mK

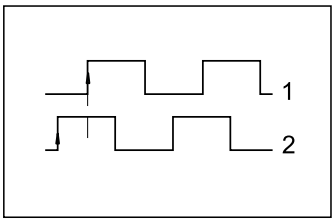


X Entry chamfer
d Air gap (see air gap table)
1 Hex socket screw (recommended: M6 x 20, EN ISO 4762)
2 O-ring
3 Reference surface
4 Axial offset
5 Direction of rotation of the Target wheel

Signal for direction of rotation 1



Signal for direction of rotation 2



Other mounting orientations (such as rotated by 45°) are available upon request.

The reference surface (3) plays a role in determining the direction of rotation.

Reference surface

- If the Target wheel rotates clockwise when viewed from the reference surface, this is **rotation direction 1**.
- If the Target wheel rotates counterclockwise when viewed from the reference surface, this is **rotation direction 2**.

Despite its high immunity to interference, the sensor must be integrated into a shielding concept to ensure EMC compliance.

Follow the EMC guidelines in the accompanying documentation.

Air Gap Table

Module	Permissible Air Gap	Nominal Air Gap	Max. Permissible Vertical Runout
1.00	0.2 … 1.4 mm	0.5 mm	± 0.3 mm
1.25			
1.50	0.2 … 1.8 mm	0.7 mm	
1.75			
2.00	0.2 … 2.2 mm	0.7 mm	
2.25			
2.50	0.2 … 2.8 mm		
2.75			
3.00			
3.25			
3.50	0.2 … 3.0 mm		

Type Code GEL 2476

2476	Product Type								
	Application								
	RA	Rail Vehicle Industry							
	MA	Maritime Applications							
	IA	Industrial Applications							
		Signal Pattern							
		E-	1-Channel Square-Wave Signal						
		S-	1-Channel Square-Wave Signal with Direction Signal						
		V-	2-channel square-wave signals with a 90° phase offset						
		X-	2-channel square-wave signals with a 90° phase offset and their inverse signals						
		D-	2-channel square-wave signals with a 90° phase offset, electrically isolated						
		H-	2-channel square-wave signals with a 90° phase offset and their inverted signals, electrically isolated						
		EI	1-channel square-wave signal; current output 6 ... 14 mA						
		DI	2-channel square-wave signals with a 90° phase offset, electrically isolated; current output 6 ... 14 mA						
		VI	2-channel square-wave signals with a 90° phase offset; current output 6 ... 14 mA						
		EM	1-channel square-wave signal; with open-circuit voltage of 7 V						
		DM	2-channel square-wave signals with 90° phase offset, electrically isolated; with 7 V open-circuit voltage						
			Shield contact						
			SD	directly attached					
			SC	capacitively attached					
			SI	isolated from the housing (1)					
				Module		**Module**			
				M01	m = 1.00, steel, involute	**M12**	m = 1.00, steel, rectangular		
				M02	m = 1.25, steel, involute	**M13**	m = 1.25, steel, rectangular		
				M03	m = 1.50, steel, involute	**M14**	m = 1.50, steel, rectangular		
				M04	m = 1.75, steel, involute	**M15**	m = 1.75, steel, rectangular		
				M05	m = 2.00, steel, involute	**M16**	m = 2.00, steel, rectangular		
				M06	m = 2.25, steel, involute	**M17**	m = 2.25, steel, rectangular		
				M07	m = 2.50, steel, involute	**M18**	m = 2.50, steel, rectangular		
				M08	m = 2.75, steel, involute	**M19**	m = 2.75, steel, rectangular		
				M09	m = 3.00, steel, involute	**M20**	m = 3.00, steel, rectangular		
				M10	m = 3.25, steel, involute	**M21**	m = 3.25, steel, rectangular		
				M11	m = 3.50, steel, involute	**M22**	m = 3.50, steel, rectangular		
					Cable outlet				
					S	Straight cable outlet			
						angle			
						0	without angle		
						1	With angle, 0 degrees	**5**	with angle, 180 degrees
						2	with angle, 45 degrees	**6**	with angle, 225 degrees
						3	with angle, 90 degrees	**7**	with angle, 270 degrees
						4	with angle, 135 degrees	**8**	with angle, 315 degrees
							Cable protection		
							P00	None	
							P02	Corrugated tube NW12	
							P03	Hydraulic hose DN12	
								Cable length L	
								L1	1000 mm
								LX	X=2: 2000 mm, X=3: 3000 mm ... X=7: 7000 mm
								L8	8,000 mm
▼	▼	▼	▼	▼	▼	▼	▼	▼	
2476	__	__	__	___	_	_	___	__	◄ **Product code**

(1) Not available for all Signal Patterns

Accessories

ZB247XM6	2 M6 x 20 screws (EN ISO 4762) with washer and spring washer

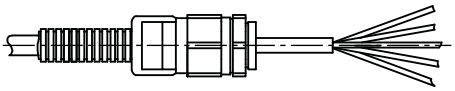
A Y-number is assigned for customer-specific designs. Custom designs are manufactured according to drawings or application descriptions and may differ from the standard technical specifications.

Examples of Preferred Types

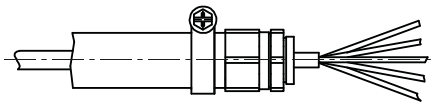
We can assemble the following for you upon request:

In addition to the extensive selection of cable exits and cable protection options (see Type Code), various configurations are also available for the cable end.

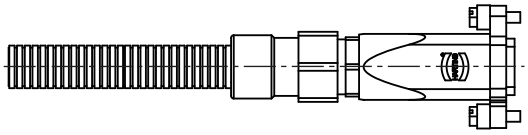
Examples of cable ends, preferred models



Corrugated tube and flying lead

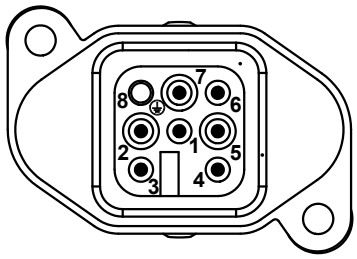


Rubber hose and flying lead



Corrugated tube with Harting HAN HPR connector

Pin assignment for Harting HAN HPR connector, preferred type



PIN	E-	S-, V-	X-	D-	EM	DM	EI	VI	DI
1	$+U_{B1}$	$+U_{B1}$	$+U_{B1}$	$+U_{B1}$	$+U_{B1}$	$+U_{B1}$	$+U_{B1}$	$+U_{B1}$	$+U_{B1}$
2	GND1	GND1	GND1	GND1	GND1	GND1	Channel 1	Channel 1	Channel 1
3	Channel 1	Channel 1	Channel 1	Channel 1	Channel 1	Channel 1	-	-	-
4	-	Channel 2	Channel 2	Channel 2	-	Channel 2	-	-	-
5	-	-	Channel 1 inverted	GND2	-	GND2	-	Channel 2	Channel 2
6	-	-	Channel 2 inverted	-	-	-	-	-	-
7	-	-	-	$+U_{B2}$	-	$+U_{B2}$	-	-	$+U_{B2}$
8	Shield	Shield	Shield	Shield	Shield	Shield	Shield	Shield	Shield

If you decide to have us assemble our Speed Sensors with cable protection and connectors, we recommend using the preferred types shown here. The necessary materials have been field-tested in large quantities and are always in stock. This allows us to achieve the fastest delivery times thanks to optimal material availability and the lowest retail prices due to large purchasing volumes. If you need assistance defining your desired product, please contact our sales team atsupport@lenord.deor +49(0)208 9963-215.

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