



Technical Information

GEL 2475MS

Multisystem sensor
with various signal pattern combinations

D-51T-2475MS | Date of issue 2025-12-09

Motion sensors and integrated drive technology

LENORD
+BAUER
*Finding solutions.
Founding trust.*

General Description

- Application-proven speed sensor using magnetic scanning
- Maintenance- and wear-free operation by contactless rotary motion measuring
- Wide measuring range for reliable detection of creeping without pulse loss and also for fast rotary motion
- Detection of direction by evaluating two channels with 90° phase offset
- Constant duty cycle of output signals



Features

- Module of the measuring scale 1.0 to 3.5
- Degree of protection: IP 68 sensor housing
- In accordance with a range of standards and requirements for a variety of applications:
see "Technical data - Environmental test", page 10

Advantages

- Integration of different signal patterns in the familiar flange housing
- Perfectly suited for retrofits and for retrofitting additional systems
- No mechanical adjustments required
- Cost-efficient due to reduced cabling effort (cables, cable protection, connectors)
- Electrically isolated rotational speed systems for operation on different supply voltages and control systems
- Large permissible measuring distance facilitates design and assembly



Do you have special requirements regarding flange shape, shaft length, number of channels, cable protection, cable outlet, connector assembly or EMC concept? Talk to us. Our experts can design the optimal solution for your application from an extensive modular system and will be pleased to advise you how to customize your solution in the most cost-efficient way.

Write to support@lenord.de or call +49 208 9963-215.

Fields of application

Industry and automation

Printing and packaging machines:

- Synchronization of conveyor belts
- Register control during printing

Automotive and commercial vehicles

Vehicle drives:

- Speed measurement on crankshafts and camshafts for engine control units
- Determination of rotor position in electric motors (BLDC, PMSM)
- Input/output speed in gears for gear change strategy

Vehicle movement dynamics systems:

- Wheel speed sensors for ABS/ESP
- Torque distribution in all-wheel drive systems

Commercial vehicles and agricultural machinery:

- Speed monitoring on PTO shafts, hydraulic pumps
- Harvesting machinery: Worm conveyors, threshing drums

Railroad technology and transportation

Rail vehicles:

- Wheel speed sensors for traction control and brake control
- Drive control for electric locomotives and railcars

Conveyor belts and cable cars:

- Speed monitoring on deflection pulleys
- Drive synchronization in multi-motor systems

Maritime applications

Drive:

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

Auxiliary units:

- Input/output speed detection for slip control

Energy and utilities

Wind turbines:

- Rotor speed for power control
- Pitch adjustment (rotor blade angle control)

Hydropower plants/turbines:

- Speed control for synchronization with mains frequency

Generators and emergency power systems:

- Speed detection for frequency monitoring and load management

Building technology and infrastructure

Elevators and escalators:

- Speed and position of the car
- Safety systems (emergency stop in case of overspeed)

Building machinery:

- Pump and fan speeds in large HVAC systems

Logistics and conveyor technology

Conveyor belts:

- Speed control in distribution centers

Automatic storage systems:

- Positioning of rack feeders

Crane systems:

- Lift and undercarriage control

Technical data voltage output

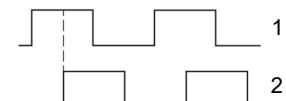
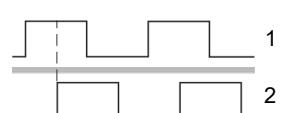
Signal pattern	E-	V-	D-			
Electrical data						
Supply voltage UB(reverse polarity protected)	10 to 30 V DC					
Current consumption IB(without load)	≤ 30 mA					
Output signal (short-circuit-proof)	Square-wave signals					
Output signal level High(1)	\geq UB- 1.5 V					
Output signal level Low(1)	≤ 1.0 V					
Output current per channel	≤ 20 mA					
Frequency range	0 to 20 kHz					
Duty cycle	$50\% \pm 20\%$ (2)					
Phase offset	— typ. 90°					
Mechanical data						
Sensor tube material						
Flange material	Stainless steel					
Sensor weight (incl. 2 m cable)	Stainless steel					
Cable (standard version – preferred type)	500 g					
Due to a variety of possible signal pattern combinations, different cable variants may be installed.						
Unless otherwise specified or requested, the following standard cable is used and the connection is made according to the preferred type of connection assignment:						
see " Harting connector HAN HPR (preferred type) ", page 23						
Cable						
Cable diameter	halogen-free and screened(3)					
Cable cross section	8.0 ± 0.3 mm					
Minimum bending radius static/dynamic	12 x 0.34 mm ²					
Screening note	24 mm/40 mm					
	Cable screen is connected directly or, as an option, capacitively in the sensor					
Environmental tests						
The speed sensor complies with a range of standards and requirements for a variety of applications:						
see " Technical data - Environmental test ", page 10						
Requirements for the target wheel						
Material	Ferromagnetic steel					
Tooth form	Involute gear teeth as per DIN 867 (others upon request)					
Width	≥ 15 mm (smaller 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 21					

(1) depending on output current and temperature

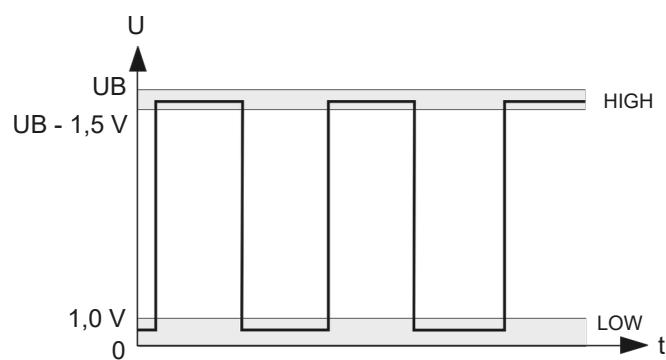
(2) applies to operation with nominal air gap and toothing as per DIN 867

(3) Specification upon request

Voltage output - signal pattern

Signal pattern		Supply voltage	Pulse diagram
Output signals			
E-	1 channel	10 to 30 V DC	
V-	2 channels, 90° phase offset	10 to 30 V DC	
D-	2 channels, electrically isolated, 90° phase offset	10 to 30 V DC	

Output signal level – Voltage output



Technical data Voltage output with standstill voltage

Signal pattern	EM	DM
Electrical data		
Supply voltage UB(reverse polarity protected)	10 to 20 V DC \leq 12	
Current consumption IB(without load)	mA per channel	
Output signal (short-circuit-proof)	Square-wave signals	
Output signal level High(1)	\geq UB- 1.8 V	
Output signal level Low(1)	\leq 1.5 V	
Output current per channel	\leq 10 mA	
Frequency range	0 to 8 kHz	
Duty cycle	50 % \pm 10 % ⁽²⁾	
Phase offset	-	typ. 90°
Mechanical data		
Sensor tube material		
Flange material	Stainless steel	
Sensor weight (incl. 2 m cable)	Stainless steel	
Cable	500 g	
Due to a variety of possible signal pattern combinations, different cable variants may be installed. Unless otherwise specified or requested, the following standard cable is used and the connection is made according to the preferred type of connection assignment: <i>see "Harting connector HAN HPR (preferred type)", page 23</i>		
Cable		
Cable diameter		
Cable cross section	halogen-free and screened ⁽³⁾	
Minimum bending radius static/dynamic	8.0 \pm 0.3 mm	
Screening note	12 x 0.34 mm ²	
	24 mm/40 mm	
	Cable screen is connected directly or, as an option, capacitively in the sensor	
Environmental tests		
The speed sensor complies with a range of standards and requirements for a variety of applications: <i>see "Technical data - Environmental test", page 10</i>		
Requirements for the target wheel		
Material	Ferromagnetic steel	
Tooth form	Involute gear teeth as per DIN 867 (others upon request)	
Width	\geq 15 mm (smaller 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 <i>see "Air gap table", page 21</i>	
Air gap		

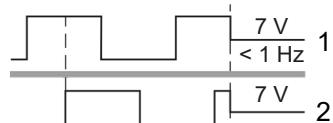
(1) depending on output current and temperature

(2) applies to operation with nominal air gap and tooth profile as per DIN 867

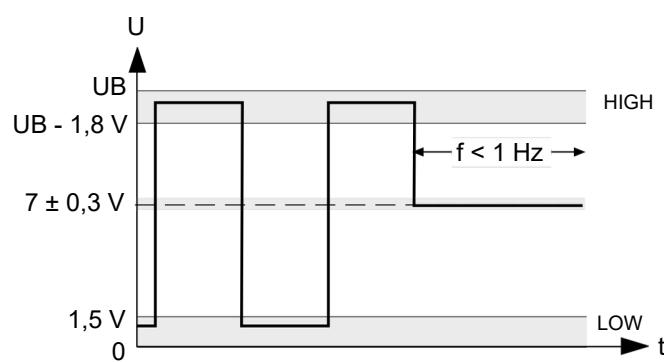
(3) Specification upon request

Output with standstill voltage - Output signals and connection

Signal pattern with standstill voltage (DM, EM)

Output signals		Supply voltage	Pulse diagram
EM	1 channel with standstill voltage	10 to 20 V DC	
DM	2 channels, electrically isolated, 90° phase offset, with standstill voltage	10 to 20 V DC	

Output signal level – voltage output (DM, EM)



Technical data Voltage current output

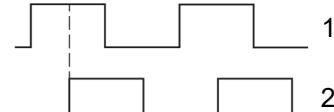
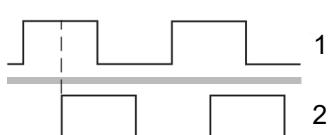
Signal pattern	EI	DI	VI			
Electrical data						
Supply voltage UB(reverse polarity protected)	10 to 20 V DC					
Output signal (short-circuit-proof)	Square-wave signals					
Output signal level High(1)	typ. 14 mA					
Output signal level Low(1)	typ. 6 mA					
Output current per channel						
Frequency range	≤ 16 mA					
Duty cycle	0 to 12 kHz					
Phase offset	50 % ± 10 %(2)					
Mechanical data	-	typ. 90°				
Sensor tube material						
Flange material	Stainless steel					
Sensor weight (incl. 2 m cable)	Stainless steel					
Cable	500 g	Due to a variety of possible signal pattern combinations, different cable variants may be installed.				
Unless otherwise specified or requested, the following standard cable is used and the connection is made according to the preferred type of connection assignment:						
see " Harting connector HAN HPR (preferred type) ", page 23						
Cable	halogen-free and screened(3)					
Cable diameter	8.0 ± 0.3 mm					
Cable cross section	12 x 0.34 mm ²					
Minimum bending radius static/dynamic	24 mm/40 mm					
Screening note	Cable screen is connected directly or, as an option, capacitively in the sensor					
Environmental tests						
The speed sensor complies with a range of standards and requirements for a variety of applications:						
see " Technical data - Environmental test ", page 10						
Requirements for the target wheel						
Material	Ferromagnetic steel					
Tooth form	Involute gear teeth as per DIN 867 (others upon request)					
Width	≥ 15 mm (smaller 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 21					

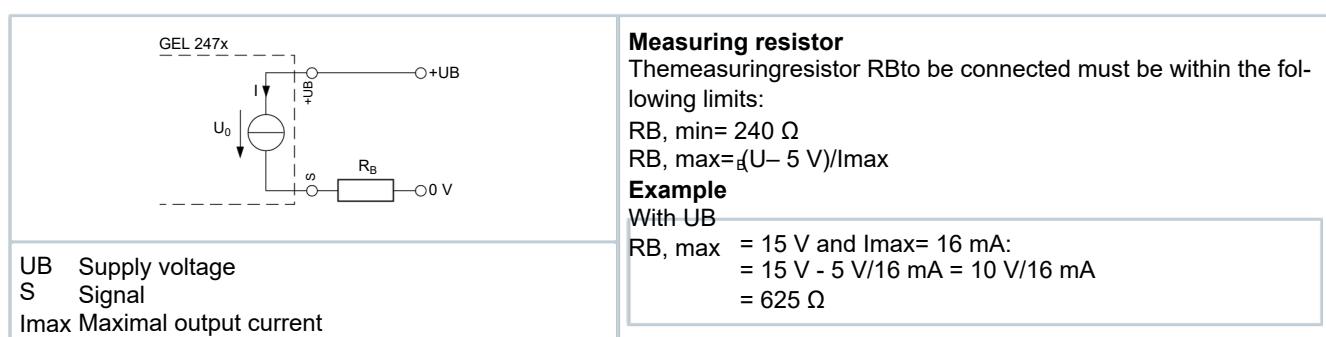
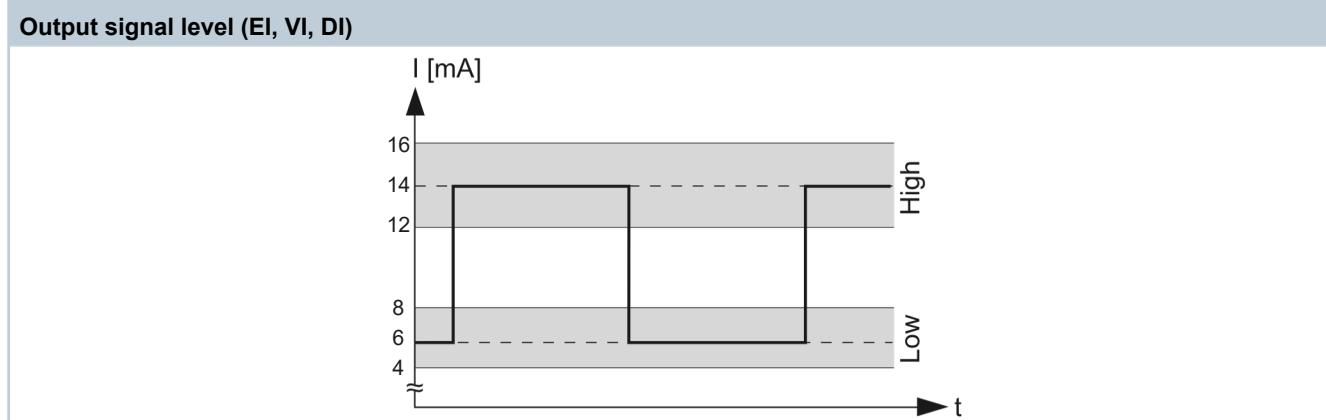
(1) depending on output current and temperature

(2) applies to operation with nominal air gap and tooth profile as per DIN 867

(3) Specification upon request

Current output - Output signals and connection

Signal pattern (EI, VI, DI)		Supply voltage	Pulse diagram
Output signals			
EI	1 channel	10 to 20 V DC	
VI	2 channels, 90° phase offset	10 to 20 V DC	
DI	2 channels, electrically isolated, 90° phase offset	10 to 20 V DC	



Technical data - Environmental test

Speed sensors from Lenord+Bauer are designed for many different areas of application. During the design and manufacture of the sensors, attention is always paid to reliability and compatibility with a range of standards, and continuous testing is performed.

As a result of continuous development and optimization of sensors in a range of applications, Lenord+Bauer has extensive experience in this field.



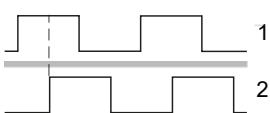
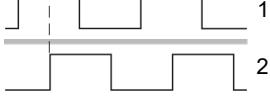
Only the minimum standards for all sensors are listed below.

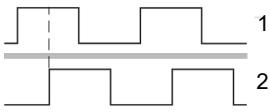
If you have any further requirements regarding standards and approvals, please feel free to contact us.

	Rail vehicle industry	Maritime applications	Industrial applications
Working and operating temperature	-40 °C to +120 °C/ -40 °C to +85 °C (for signal patterns with standstill voltage)		
Storage temperature	-40 °C to +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 measuring side(1)	IP68		
MTTF value	2,000,000 at 55 °C		

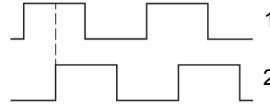
(1) Degree of protection on the cable outlet side depends on cable gland or cable protection

System combinations

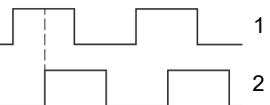
Signal pattern D/D(type code option 01)		
System 1		2 electrically isolated voltage signals with 90° phase offset
System 2		2 electrically isolated voltage signals with 90° phase offset

Signal pattern D/E(type code option 02)		
System 1		2 electrically isolated voltage signals with 90° phase offset
System 2		1 voltage signal

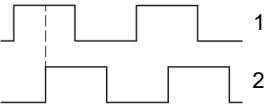
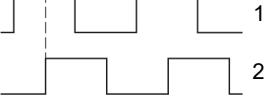
Signal pattern E/E/E/E(type code option 03)		
System 1		1 voltage signal
System 2		1 voltage signal
System 3		1 voltage signal
System 4		1 voltage signal

Signal pattern V/E/E(type code option 04)		
System 1		2 voltage signals with 90° phase offset
System 2		1 voltage signal
System 3		1 voltage signal

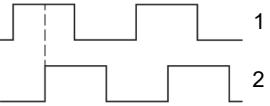
Signal pattern V/E(type code option 05)

System 1		2 voltage signals with 90° phase offset
System 2		1 voltage signal

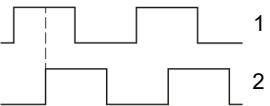
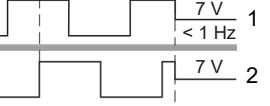
Signal pattern V/V(type code option 06)

System 1		2 voltage signals with 90° phase offset
System 2		2 voltage signals with 90° phase offset

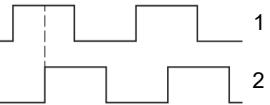
Signal pattern V/ EM/EM(type code option 07)

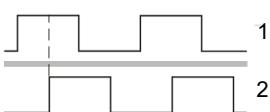
System 1		2 voltage signals with 90° phase offset
System 2		1 voltage signal with standstill voltage
System 3		1 voltage signal with standstill voltage

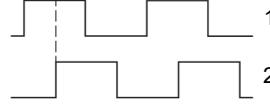
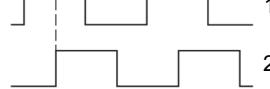
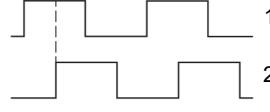
Signal pattern V/DM(type code option 08)

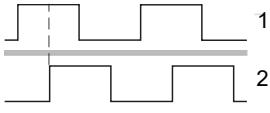
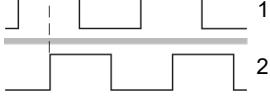
System 1		2 voltage signals with 90° phase offset
System 2		2 electrically isolated voltage signals with 90° phase offset and standstill voltage

Signal pattern V/EM(type code option 09)

System 1		2 voltage signals with 90° phase offset
System 2		1 voltage signal with standstill voltage

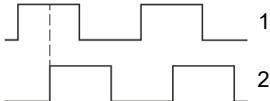
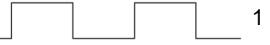
Signal pattern D/EM(type code option 10)		
System 1		2 electrically isolated voltage signals with 90° phase offset
System 2		1 voltage signal with standstill voltage

Signal pattern V/ V/V(type code option 11)		
System 1		2 voltage signals with 90° phase offset
System 2		2 voltage signals with 90° phase offset
System 3		2 voltage signals with 90° phase offset

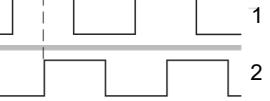
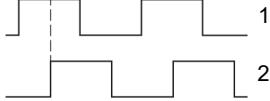
Signal pattern DI/D(type code option 12)		
System 1		2 electrically isolated current signals with 90° phase offset
System 2		2 electrically isolated voltage signals with 90° phase offset

Signal pattern EI/EI/E/E(type code option 13)		
System 1		1 current signal
System 2		1 current signal
System 3		1 voltage signal
System 4		1 voltage signal

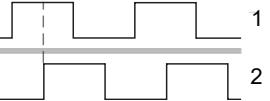
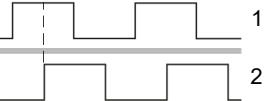
Signal pattern VI/E/E(type code option 14)

System 1		2 current signals with 90° phase offset
System 2		1 voltage signal
System 3		1 voltage signal

Signal pattern D/VI(type code option 15)

System 1		2 electrically isolated voltage signals with 90° phase offset
System 2		2 current signals with 90° phase offset

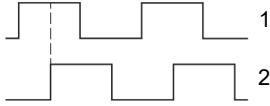
Signal pattern DI/DI(type code option 16)

System 1		2 electrically isolated current signals with 90° phase offset
System 2		2 electrically isolated current signals with 90° phase offset

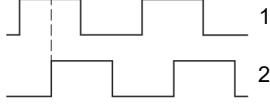
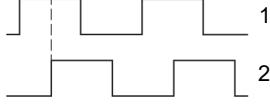
Signal pattern EI/EI/EI/EI(type code option 17)

System 1		1 current signal
System 2		1 current signal
System 3		1 current signal
System 4		1 current signal

Signal pattern VI/EI(type code option 18)

System 1		2 current signals with 90° phase offset
System 2		1 current signal

Signal pattern VI/VI(type code option 19)

System 1		2 current signals with 90° phase offset
System 2		2 current signals with 90° phase offset

Mechanical properties

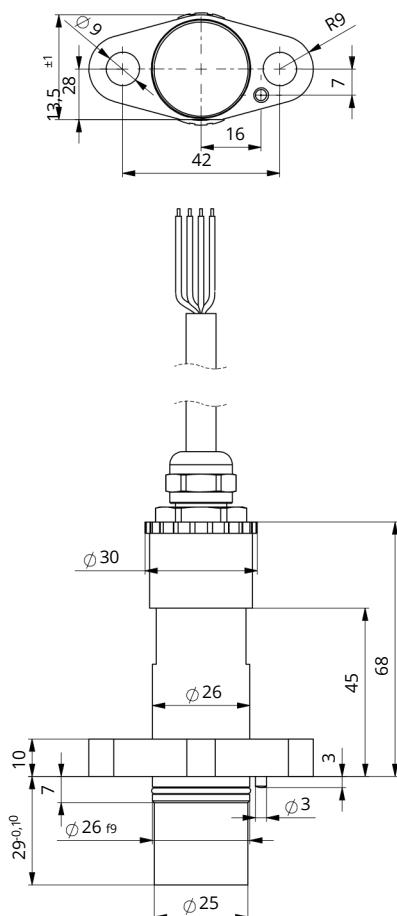
Cable outlet

Cable outlet straight

Option **S** (seetype code)

The straight cable outlet can also be connected via an angle:

["Cable outlet straight", page 17](#)



Cable protection at cable outlet

The speed sensor can be equipped with different types of cable protection at the cable outlet as required.

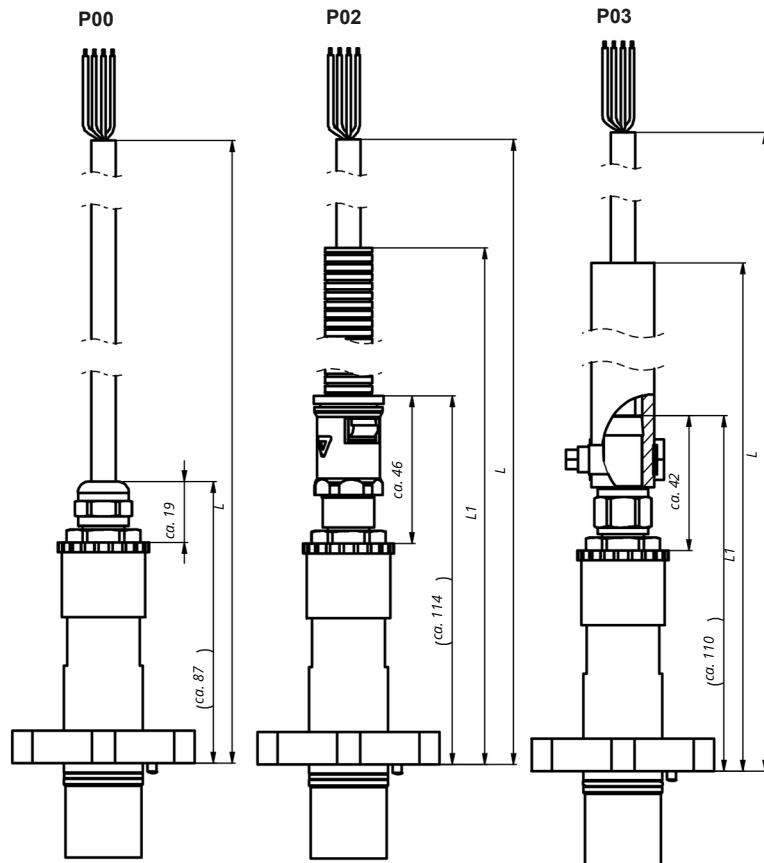
Selection P00	Without cable protection
Selection P02	Flexible conduit NW12
Selection P03	Hydraulic hose DN12

Technical data for cable protection

Option	P02	P03
Type	Flexible conduit NW12	Hydraulic hose DN12
Material	Polyamid, halogen-free	Rubber compound
Outside diameter	15.8 mm	20.0 mm
Minimum bending radius	35 mm (static) 80 mm (dynamic)	70 mm

Cable outlet straight

Cable protection cable outlet straight - If option **S** is selected for cable outlet (see type code)



P00 Without cable protection

P02 Flexible conduit NW12

P03 Hydraulic hose DN12

L Cable length **L** is determined by type code

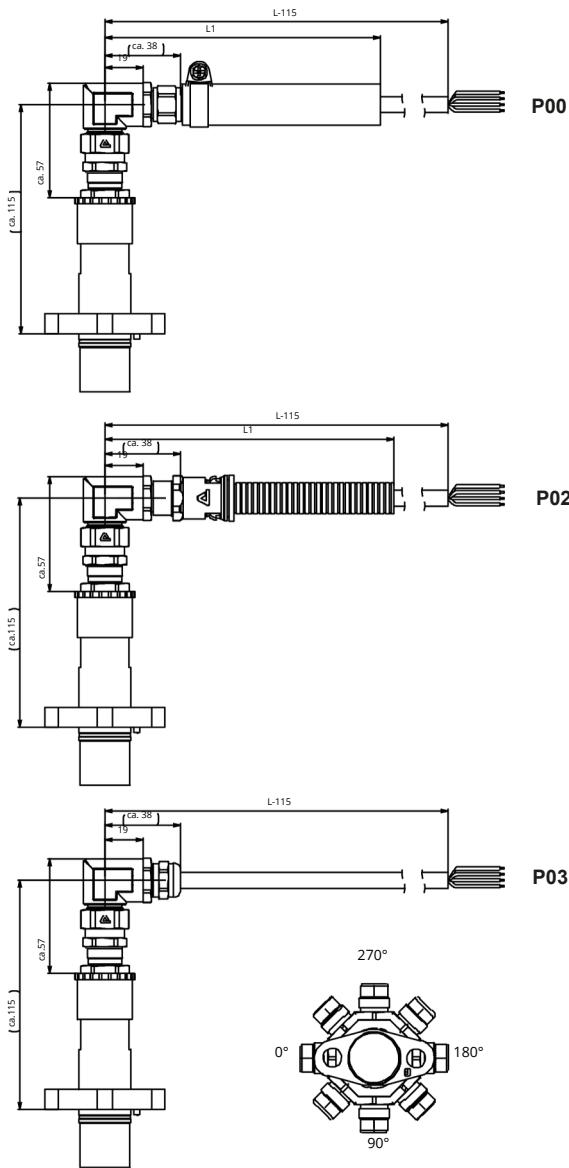
L1 (Tolerance depends on the preassembled cable length)

Protective sleeve length **L1**; depending on the cable connection and assembly, the protective sleeve length **L1** corresponds to the cable length **L** - 100 mm

Cable outlet straight with angle

Cable outlet straight with angle - If option **S** is selected for cable outlet (see type code)

The selection can be made in 45° increments 000°; 045°; 090°; 135°; 180°; 225°; 270°; 315° (Tolerance $\pm 10^\circ$) (see type code).



P00 Without cable protection

P02 Flexible conduit NW12

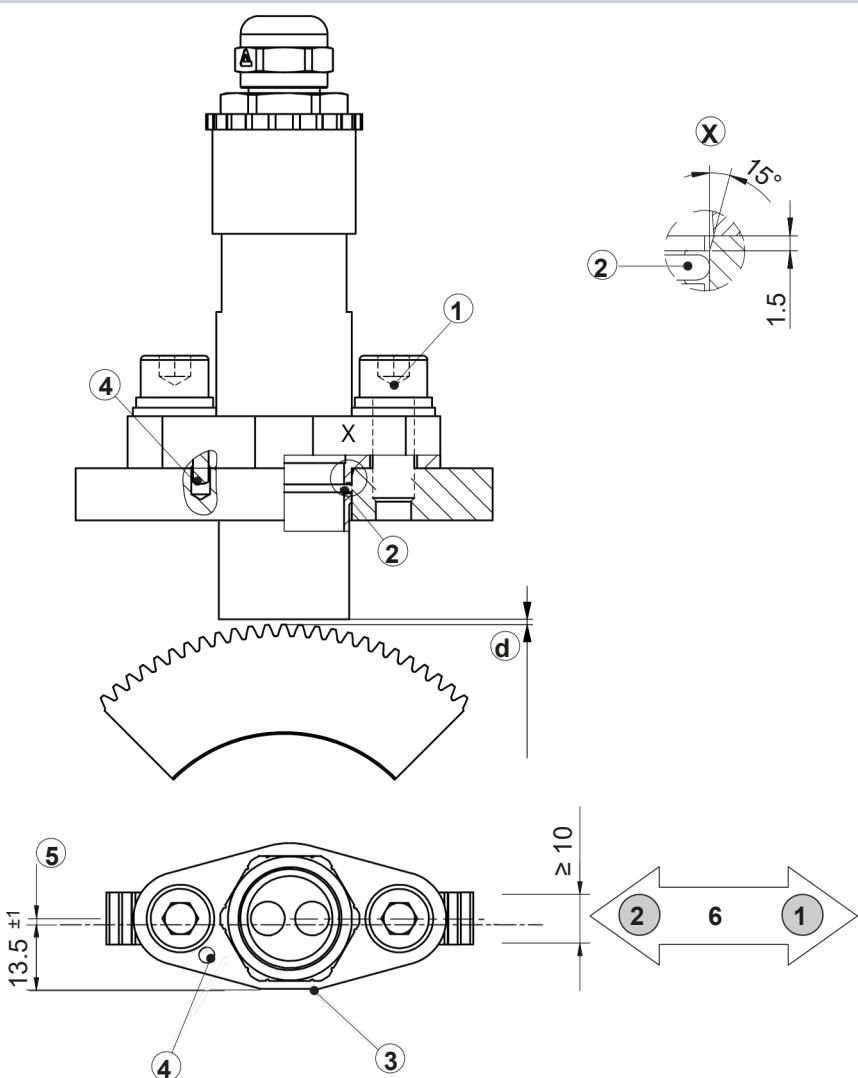
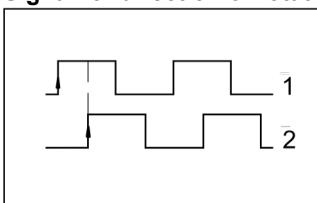
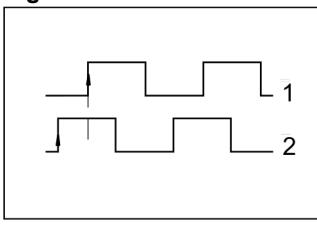
P03 Hydraulic hose DN12

L Cable length **L** is determined by type code (Tolerance depends on the preassembled cable length)

L1 Protective sleeve length **L1**; depending on the cable connection and assembly, the protective sleeve length **L1** corresponds to the cable length **L** - 100 mm

Assembly drawing

All dimensions in mm, general tolerance DIN ISO 2768 mK

	<p>X Insertion chamfer</p> <p>d Air gap (see air gap table)</p> <p>1 Socket head screw (recommended: M8 x 20, EN ISO 4762)</p> <p>2 Sealing ring O-ring</p> <p>3 Reference surface</p> <p>4 Index pin</p> <p>5 Axial offset</p> <p>6 Direction of rotation of target wheel</p>
	<p>Signal for direction of rotation 1</p>  <p>Signal for direction of rotation 2</p> 

The direction of rotation is determined by the reference surface (3) or the index pin (4).

Index pin

- If the target wheel rotates from the index pin to the center of the sensor, this is **Direction of rotation 1**. If the target wheel rotates from the center of the sensor to the index pin, this is **Direction of rotation 2**.

Reference surface

- If the target wheel rotates clockwise with view to the reference surface, this is **Direction of rotation 1**. If the target wheel rotates counterclockwise with view to the reference surface, this is **Direction of rotation 2**.

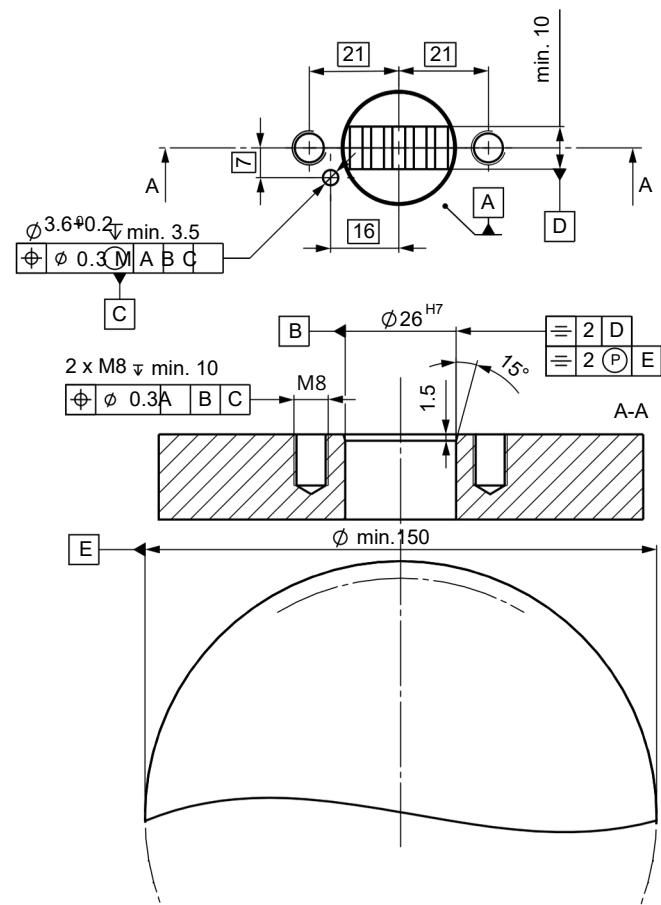
Despite the high electromagnetic immunity, integration into a screening concept is required for the sensor to ensure EMC stability.



Observe EMC notes in the relevant documents.

Hole pattern

All dimensions in mm, general tolerance DIN ISO 2768 mK



Air gap table

Module	Permissible air gap	Nominal air gap	max. permissible radial runout
1.00	0.2 to 1.4 mm	0.5 mm	
1.25			
1.50			
1.75	0.2 to 1.8 mm	0.7 mm	
2.00			
2.25	0.2 to 2.2 mm		±0.3 mm
2.50			
2.75	0.2 to 2.8 mm	0.7 mm	
3.00			
3.25			
3.50	0.2 to 3.0 mm		

Type code GEL 2475MS

2475MS Product type	
01	Signal pattern option System combination
02	2xsignalpatternD
03	SignalpatternDwithsignalpatternE
04	4xsignalpatternE
05	SignalpatternVwith2xsignalpatternE
06	SignalpatternVwithsignalpatternE
07	2xsignalpatternV
08	SignalpatternVwith2xsignalpatternEM
09	SignalpatternVwithsignalpatternDM
10	SignalpatternVwithsignalpatternEM
11	3xsignal pattern V (for module 2.00 only)
12	Signalpattern D with signal pattern DI
13	2xsignal pattern E with 2 x signal pattern EI
14	2xsignal pattern E with signal pattern VI
15	Signalpattern D with signal pattern VI
16	2xsignal pattern DI
17	4xsignal pattern EI
18	Signal pattern VI with signal pattern EI
19	System combination 2 x signal pattern VI
SD	Screen connection
SC	connected directly
SI	connected capacitively
	insulated from the housing ⁽¹⁾
M01	Module
M02	m=1.00,steel,involute
M03	m=1.25,steel,involute
M04	m=1.50,steel,involute
M05	m=1.75,steel,involute
M06	m=2.00,steel,involute
M07	m=2.25,steel,involute
M08	m=2.50,steel,involute
M09	m=2.75,steel,involute
M10	m=3.00,steel,involute
M11	m=3.25,steel,involute
M12	m=3.50,steel,involute
M13	m=1.00,steel,rectangular
M14	m=1.25,steel,rectangular
M15	m=1.50,steel,rectangular
M16	m=1.75,steel,rectangular
M17	m=2.00,steel,rectangular
M18	m=2.25,steel,rectangular
M19	m=2.50,steel,rectangular
M20	m=2.75,steel,rectangular
M21	m=3.00,steel,rectangular
M22	m=3.25,steel,rectangular
m=3.50,steel,rectangular	
S	Cable outlet
	Cableoutletsstraight
0	Angle
1	Without angle, 0 degrees
2	with angle, 45 degrees
3	with angle, 90 degrees
4	with angle, 135 degrees
5	with angle, 180 degrees
6	with angle, 225 degrees
7	with angle, 270 degrees
8	with angle, 315 degrees
P00	Cable protection
P02	without
P03	Flexible conduit NW12
P04	Flexible conduit NW17
L2	Cable length L
L3	2000 mm
L4	3000 mm
	4000 mm
2475MS	◀Product code

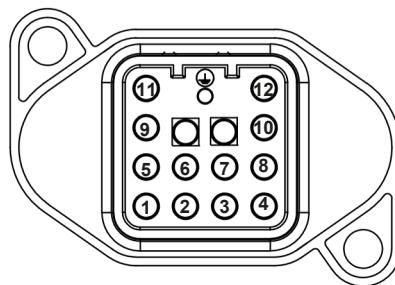
(1) Not available for all signal patterns



A Y-number is assigned for a customer-specific version. A special version is manufactured according to drawing or application description and may deviate from the standard technical specifications.

Assignment

Harting connector HAN HPR (preferred type)



PIN:	1	2	3	4	5	6	7	8	9	10	11	12	
Color:	VT	PK-BU	GY	YE	BU	RD-BU	PK	WH	RD	GN	BK	BN	
D/D D/E	Track B1	GND2	GND3	Track A2	GND1	UB2	+UB ₃	Track B2	U _{B1}	+UB4	-	Track A1	GND4 -
E/E/E/E	Track B1	GND2	GND3	Track A2	GND1	UB2	+UB ₃	- Track	U _{B1}	+UB4	Track A1	GND4	
V/E/E	Track B1	GND2 --	GND3	Track A2	GND1	UB2	+UB ₃	B2 Track	U _{B1}	+UB4	Track A1	GND4 --	
V/E V/V	Track B1	- - - -	GND3	Track A2	GND1	-	+UB ₃	B2 -	U _{B1}	-	Track A1	GND4	
V/EM/EM	Track B1	GND2	GND3	Track A2	GND1	-	+UB ₃	Track B2	U _{B1}	- +UB4	Track A1	GND4 --	
V/DM	Track B1	GND1	GND3	Track A2	GND1	-	+UB ₃	Track B2	U _{B1}	+UB4	Track A1	Track B3	
V/EM	Track B1	Track B1	GND3	Track A2	GND1	-	+UB ₃	Track B2	U _{B1}	-	Track A1	GND4	
D/EM	Track B1	Track B1	GND3	Track A2	GND1	-	+UB ₃	- - Track	U _{B1}	- Track	Track A1	GND4	
V/V/V	Track B1	Track B1	GND3	Track A2	GND1	UB2	+UB ₃	B2 Track	U _{B1}	A3 +UB4	Track A1	GND4	
DI/D	Track B1	Track B1	GND3	Track A2	GND1	UB2	+UB ₃	B2 Track	U _{B1}	+UB4	Track A1	GND4	
EI/EI/E/E	Track A2	Track B1	GND3	Track B1	GND1	UB2	+UB ₃	B2 Track	U _{B1}	+UB4	Track A1	Track B2	
VI/E/E	-----		GND3	Track A2	Track A1	UB2	+UB ₃	B2 Track	U _{B1}	+UB4	-----		
VI/D DI/			GND3	Track A2	Track A1	-	+UB ₃	B2 -	U _{B1}	+UB4			
DI			GND3	Track A2	Track A1	-	+UB ₃		U _{B1}				
EI/EI/EI/			GND3	Track A2	Track A1	UB2	+UB ₃		U _{B1}				
EI			Track A2	-	Track A1	-	+UB ₃						
VI/EI						-	+UB ₃		U _{B1}				
VI/VI	-	Track B1	Track A2	-	Track A1	U _{B2}	+UB ₃	-	U _{B1}	+UB4	-	Track B2	
	-	Track B1	Track A2	-	Track A1	-	+UB ₃	-	U _{B1}	-	-	-	
	-	Track B1	Track A2	-	Track A1	-	+UB ₃	-	U _{B1}	-	-	Track B2	

Core identifier: **BK**black **BN**brown **BU**blue **GY**gray **PK**pink **RD**dred **WH**white **YE**yellow **VT**violet

If you decide to have our speed sensors assembled with cable protection and connectors, we recommend using the preferred types shown in the figure. The required materials are field-tested in large quantities and are always in stock. This guarantees the fastest delivery times with the best material availability and the lowest prices due to large purchasing volumes. If you need help in finding the product you need, please contact our internal sales team at support@lenord.de or call +49 208 9963-215.

Europe

Germany

Lenord+Bauer & Co. GmbH

Dohlenstrasse 32
46145 Oberhausen
Tel. +49(0) 208 9963 0
E-Mail info@lenord.de
www.lenord.de

Italy

Lenord+Bauer Italia S.r.l.

Via Gustavo Fara, 26
20124 Milano
Tel. +39 340 1047184
E-Mail salesitaly@lenord.com
www.lenord.com



North America

USA

Lenord+Bauer USA Inc.

32000 Northwestern Highway, Suite 150
Farmington Hills, MI 48334
Tel. +1 248 4467003
orders@lenord.com
E-Mail Info-us@lenord.com
www.lenord.com

For more information contact



+44 (0)161 217 7100

sales@motec.co.uk

Asia

China

Lenord+Bauer Automation Technology (Shanghai) Co.

Block 42, Room302, No.1000,
Jinhai Road, 201206 Shanghai
Tel. +86 21 50398270 E-Mail
Info@lenord.cn
www.lenord.cn

India

Lenord+Bauer India Private Limited

417Golden Square Prime ServicedOffice
Davanam Sarovar Portico Suites
Hosur Main Road, Bengaluru 560068
Karnataka
Tel. +919901516814
E-Mail info@lenord.co.in
www.lenord.co.in

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