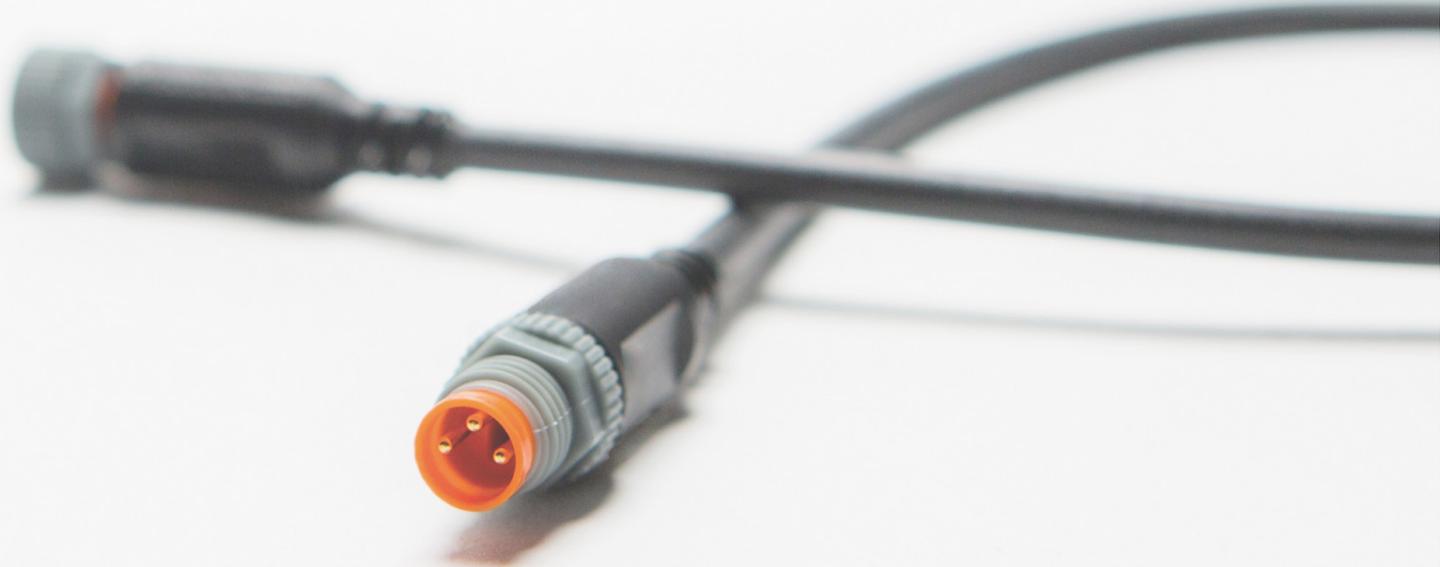




INDUSTRIAL
COMPONENTS

Industrial Components

PRODUCT CATALOG



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About us



NAFTA



EMEA



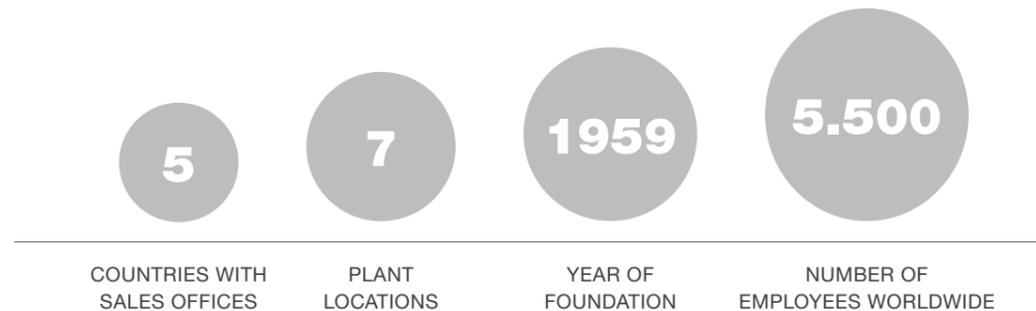
APAC



Global presence. We are represented in all economic markets.

WE CREATE THE MOBILITY OF TOMORROW

Since more than 60 years, Hirschmann Automotive drives progress in the automotive sector on a daily basis. Its specialty: contacting- and connectorsystems, high-voltage applications, special cable assemblies, plastic overmolding technology, as well as sensor systems and stamping technology. Be it standard parts or individual customer solutions, the objective is to be the leading company in the development and production of innovative products in the automotive industry. With the Industrial Components business unit, we are applying this expertise to a large number of other industrial sectors. Customers benefit from decades of experience and the combination of core technologies from the industrial and automotive sectors.



MOTION AND RELIABILITY: THAT IS OUR DEFINITION OF PROGRESS

A competent partner in every regard

We regard it as our duty to constantly develop and to offer the automotive and other industries and especially our customers cutting-edge technologies. With professional tool and special machine construction, we create the best conditions for the efficient implementation of new products and special parts.

Quality comes first

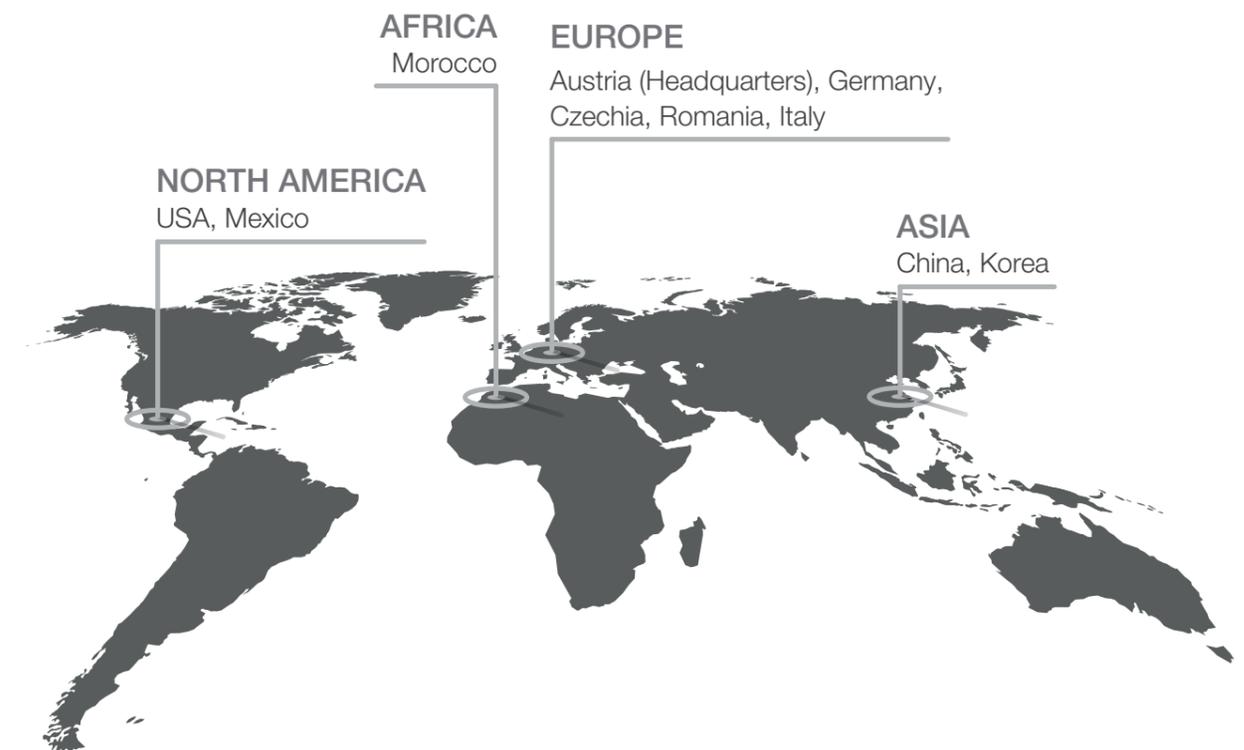
The central measuring and testing laboratory is the guarantor for fully tested components, from the design and construction phase through to series production. With vibration tests, metallography, microscopy, X-rays, tightness, infrared thermal analysis or environmental impact analyses, you can be sure that mature and flawless products leave our premises. Laboratory tests complete the extensive and indispensable quality process.

Good connections start with people

While we are an entirely technology-driven company, our true core is people and the passion behind their work. We believe that good employees and a good working atmosphere are the most important success factors of our time. This corporate culture links our sites across the oceans. The facts speak for themselves: a distinctive corporate culture, outstandingly trained and motivated employees, and a strong network that connects us to customers and suppliers.

Sustainability and environmental awareness

For the Hirschmann Automotive Group the same standard applies worldwide that follows our own Environmental, Health & Safety policy. It describes our goals in environmental and energy management as well as health and safety at work.



PRODUCTION
Austria (Headquarters)
Germany
Czechia
Romania
Morocco
Mexico
China



SALES
Rankweil, Austria
Munich, Germany
Braunschweig, Germany
Orbassano, Italy
Detroit, USA



DISTRIBUTOR
Korea

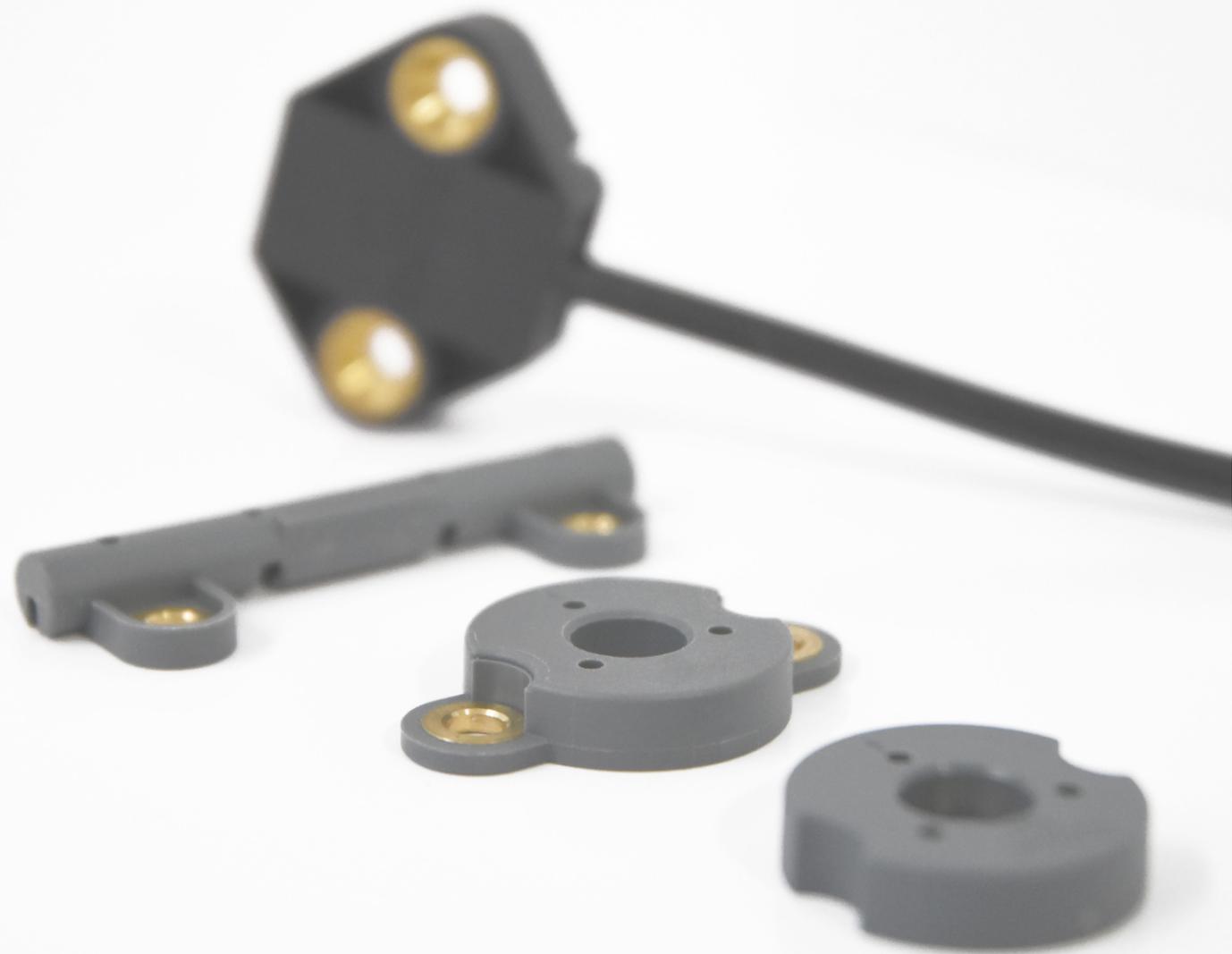
Portfolio



CONNECTORS	Our connector families guarantee a robust and compact design, water tightness as well as resistance to vibration. The flexibly designed connector housing resists high thermal and dynamic loads with maximum performance. It is thanks to these properties that the high requirements on automotive plug connectors for sensors and actuators can also be ensured in the engine compartment.
STAMPING TECHNOLOGY	We develop and produce precise stamping, stamping-bending, drawing and insert parts as well as construction components for different industries in our own core competence centre for stamping processes. In addition to classic progressive die-cutting, we also cover the field of die-cutting packetizing and our state-of-the-art machinery enables us to manufacture products for electric motors and hybrid technology.
SPECIAL CABLE ASSEMBLIES	Our special cables cover a wide variety of applications. At the interface between the dry and wet areas, in many situations where space is critical and in areas subject to impact and stress. Fundamentally, with our design, we assist in the simplification and/or optimisation of assembly procedures at the OEM's plant and the system/module supplier.
E-JOYN	Hirschmann Automotive has created the brand E-JOYN which offers a comprehensive product portfolio for the new market of all kind of electric vehicles, covering all data interfaces and electrical interfaces. These include batteries, motors, sensors, displays, lighting and brakes. Bluetooth communication modules are currently particularly popular and can be integrated directly into the interfaces.
SENSOR SYSTEMS	Wherever linear position, rotary, and rotational speed information is required, it has to be registered contactlessly and visualized reliably. Highly accurate, reproducible, and robust measurements can be technically implemented on the basis of the physical Hall effect. Here, our engineers take the mechanical and the electrical interface into account and develop the sensor into the application environment.
HIGH VOLTAGE APPLICATIONS	Trends such as the electrification of vehicles and other alternative drive technologies are presenting new challenges for high-voltage applications. The technical excellence of the components is just as important as that of affordable, flexible processing technology. In cooperation with well-known OEMs, we have developed pioneering systems. Our product portfolio covers all applications in the high-voltage vehicle electrical system.

Industrial Components

Take a closer look



Sensor Systems



Rotation Direction Sensors

HISD

The wear-free, magnetic Hall sensors are used for rotation direction detection. The magnetic field which is produced by a permanent magnet is output as a signal according to the direction of rotation. The sensors are available with a connection cable (200 or 1,000 mm), with or without the M8 connector and as 5V or 36V variant.



Rotation Angle Sensors

HISA

The wear-free, programmable, magnetic Hall sensors are used for rotation angle measurements. The magnetic field, which is produced by a permanent magnet, is outputted in a linear output voltage according to the rotation. The sensors are available with a connection cable (200 or 1,000 mm), with or without the M8 connector and as 5V or 36V variants.



Rotation Speed Sensors

HISR

Our contactless and wear-free sensors for rotation speed detection from 0 to 600000 rpm are used in a wide range of applications. Magnetic pole wheels, 2- or 3-wire interface, a size-optimized design, sealed housing, various connection options characterize these sensors. They can also be used in harsh environments and combined with direction of rotation detection.



Position Sensors

HISL

The wear-free, programmable, magnetic Hall sensors are used for length measurements. The magnetic field, which is produced by a permanent magnet, is outputted in a linear output voltage according to the longitudinal movement. The sensors are available with a connection cable (200 or 1,000 mm), with or without the M8 connector and as 5V or 36V variants.



Slant Sensors

HISO

The contactless and wear-free high-resolution sensors for inclination detection from -180 ° to 180 ° are characterized by high temperature stability, variable and programmable output characteristics, size-optimized design, sealed housing and various connection options. They are suitable for use in harsh environments and have a wide range of applications.



Switches

HISS

The magnetic cylinder sensors are used mainly to monitor the piston position in cylinders and gripper units. The sensors detect the piston magnet through the actuator wall. Due to the contactless design the cylinder sensors are reliable and free of wear. The sensors guarantee reliable signals even at high processing.



Rotation Angle Sensors

HISA

HISA

GENERAL CHARACTERISTICS

Wear-free, programmable, magnetic Hall sensors for measuring angles. A magnetic field generated by a permanent magnet is outputted according to the rotation in a linear output voltage. Available with connecting cable with or without M8 Connector.

ELECTRICAL CHARACTERISTICS		5V variants	36V variants
min. operating voltage		4,5V	9V
max. operating voltage <85°C		5,5V	36V
max. operating voltage <125°C		5,5V	25V
max. current draw	at operating voltage not burdened output	VDD=5V 10mA	V+=24V 10mA
output signal			
min. output signal	10 kΩ load resistor (PULL- Down)	10%VDD	0,5V
max. output signal	10 kΩ load resistor (PULL- Down)	90%VDD	4,5V
max. signal deviation	measuring range 360°/eccentricity sensor – magnet ± 1mm/HIS – ring magnet/-40°C ... 85°C	± 2%VDD	± 2,5%5V
fulfilled EMC-standards		EN13309:2010	EN13309:2010 EN60947-5-2:2007

MECHANICAL CHARACTERISTICS: SENSOR	
cable diameter D max.	4,8 mm
cable length with M8 connector	200 or 1000 mm
cable length without M8 connector	1022,9 or 3022,9 mm
type of connector	M8x1
housing material	PA-6 GF30
cable jacket material	TPE, PUR
protection class with M8 connector	IP66 / IP67 / IPx9k
protection class without M8 connector	IP66 / IPx9k
vibration resistance	DIN EN 60947-5-2
min. ambient temperature	-40 °C
max. ambient temperature	125°C

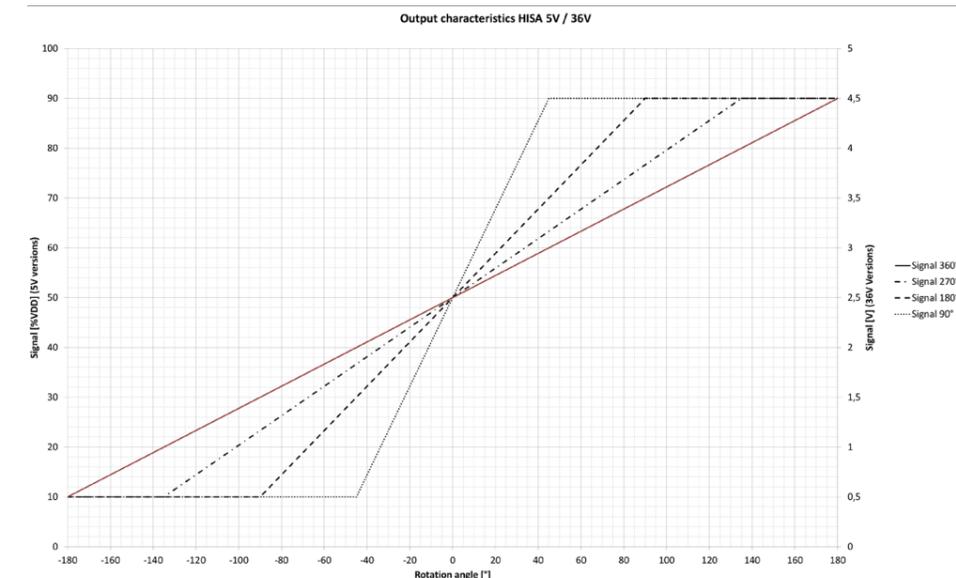
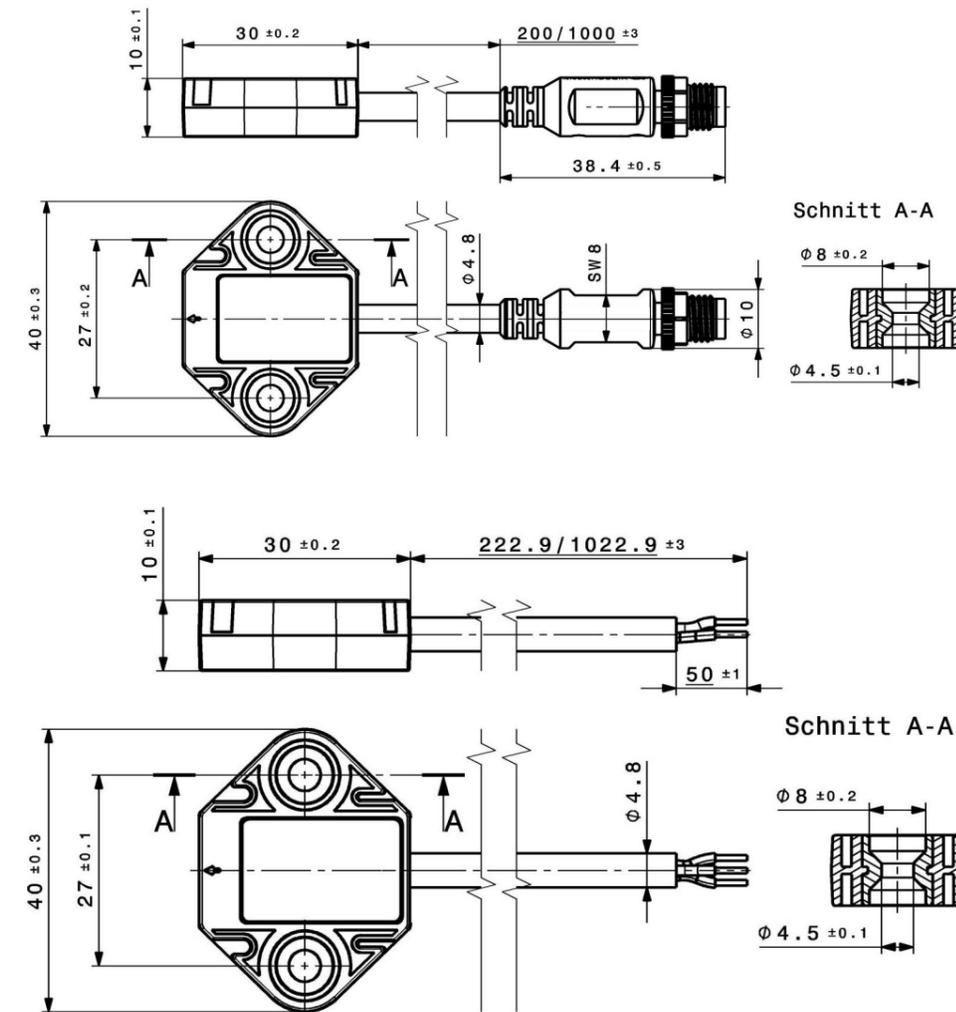
MECHANICAL CHARACTERISTICS: MAGNET	
housing material	PA-66 GF25
magnet material	N42SH
min. ambient temperature	-40 °C
max. ambient temperature	125 °C

No direct impact on the magnet is allowed.

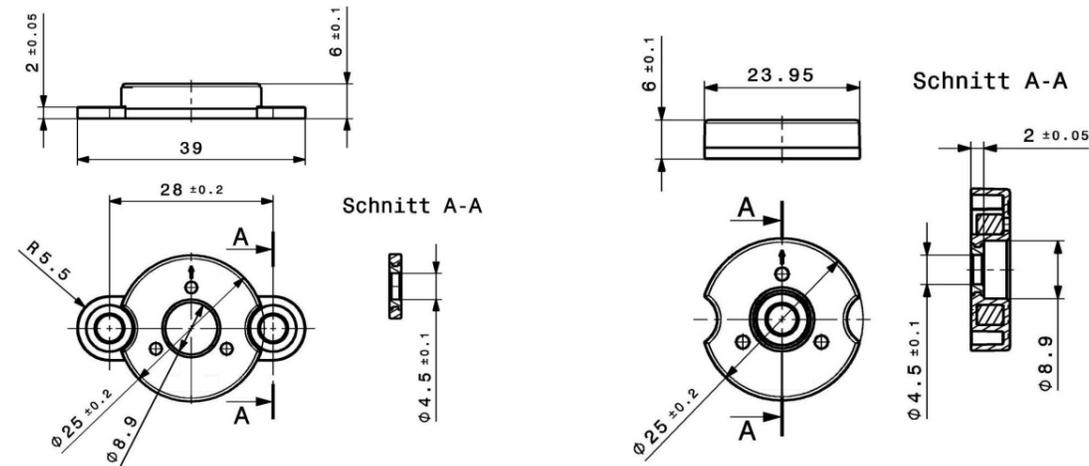


On request custom connectors, output signal programming, shielding and custom magnet designs are possible.

PRODUCT DRAWINGS

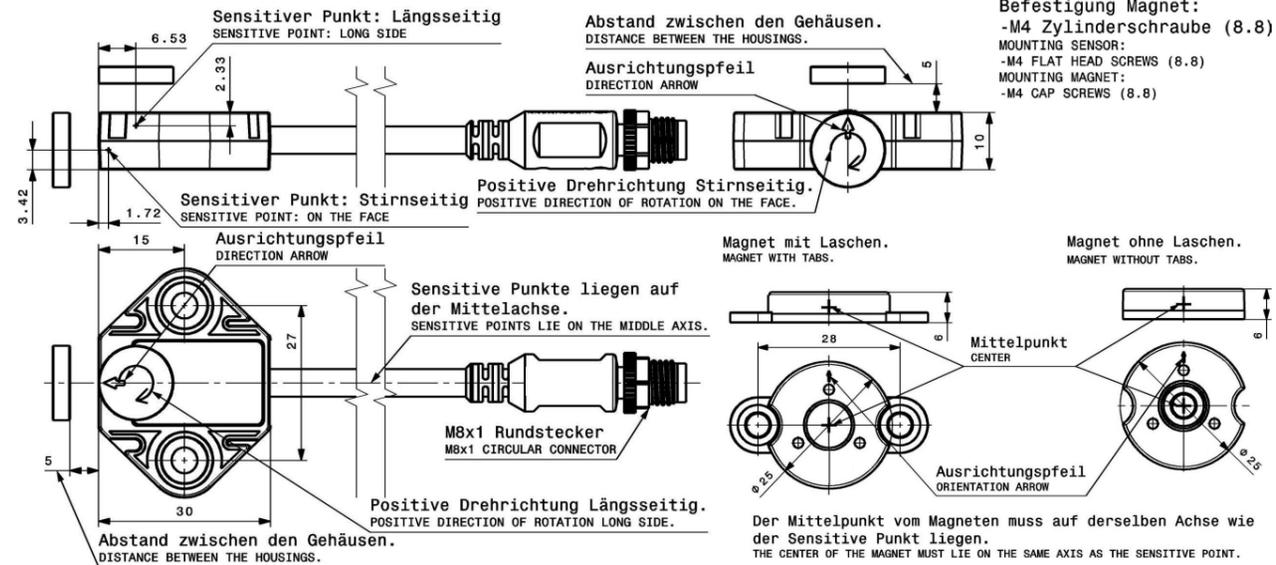


AVAILABLE MAGNETS



MOUNTING DESCRIPTION

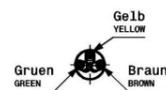
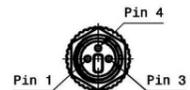
Die Magneten sind schematisch dargestellt und veranschaulichen die möglichen Montagepositionen.
THE MAGNETS ARE SHOWN SCHEMATICALLY AND ILLUSTRATE THE POTENTIAL MOUNTING POSITIONS.



Befestigung Sensor:
-M4 Senkschraube (8.8)
Befestigung Magnet:
-M4 Zylinderschraube (8.8)
MOUNTING SENSOR:
-M4 FLAT HEAD SCREWS (8.8)
MOUNTING MAGNET:
-M4 CAP SCREWS (8.8)

Mit M8x1 Rundstecker
WITH M8x1 CIRCULAR CONNECTOR

Ohne M8x1 Rundstecker
WITHOUT M8x1 CIRCULAR CONNECTOR



PIN	Farbe COLOUR	Belegung PINNING
4	Gelb YELLOW	OUT
3	Braun BROWN	GND
1	Grün GREEN	VDD

Die Anschraubfläche muss Eben sein.
THE MOUNTING SURFACE MUST BE FLAT.
Die Buchse muss vollflächig aufliegen.
THE SOCKET MUST REST COMPLETELY OVER THE ENTIRE SURFACE.

Detection type

R: Rotation
A: Angle
D: Direction
L: Linear
O: Obliqueness
S: Switch
P: Pressure

Signal type

V: Analog voltage signal

Signal form

ratiometric 10-90% VDD for supply voltage range 1;
0,5V - 4,5V for supply voltage range 2

Supply voltage range

1: 4,5 - 5,5V
2: 9 - 36V

Connection method

C: Connector
0: Cable head, wire end

Connection layout

M8: M8x1 Connector
00: cut straight
01: : dismantled, single wires stripped and tinned
02: dismantled, single wires stripped
03: dismantled
04: single wires stripped
05: single wires stripped and tinned

H I S A

0 1 0 1

V 1 1

W 0 2

C M 8

0 0

Wire/Cable length in cm

01: 10cm
02: 20cm
03: 30cm
04: ...
99: 990cm

Measurement range

1: 360° Angle
2: 270° Angle
3: 180° Angle
4: 90° Angle
5: 40mm Length

Detection direction

0: Rotation
1: Linear measurement parallel to mounting axis
2: Linear measurement transversely to mounting axis

Detection side

1: Face side
2: Longitudinal side

Supplied Magnet

0: No Magnet
1: Ring Magnet with central bush
2: Ring magnet with lateral mounting bushes (tabs)
3: Linear Magnet

HISA

GENERAL CHARACTERISTICS

Wear-free, programmable, magnetic Hall sensors for measuring angles. A magnetic field generated by a permanent magnet is outputted according to the rotation in a linear output voltage. Available with connecting cable with or without M8 Connector.



ELECTRICAL CHARACTERISTICS		5V variants	36V variants
min. operating voltage		4,5V	9V
max. operating voltage <85°C		5,5V	36V
max. operating voltage <125°C		5,5V	25V
max. current draw	at operating voltage not burdened output	VDD=5V 10mA	V+=24V 10mA
output signal	ratiometric, analog voltage-signal		
min. output signal	10 kΩ load resistor (PULL- Down)	10%VDD	0,5V
max. output signal	10 kΩ load resistor (PULL- Down)	90%VDD	4,5V
max. signal deviation	measuring range 360°/eccentricity sensor – magnet ± 1mm/HIS – ring magnet/-40°C ... 85°C	depending on the magnet; typ. ±7,5%VDD	depending on the magnet; typ. ± 8%5V
fulfilled EMC-standards		EN13309:2010	EN13309:2010 EN60947-5-2:2007

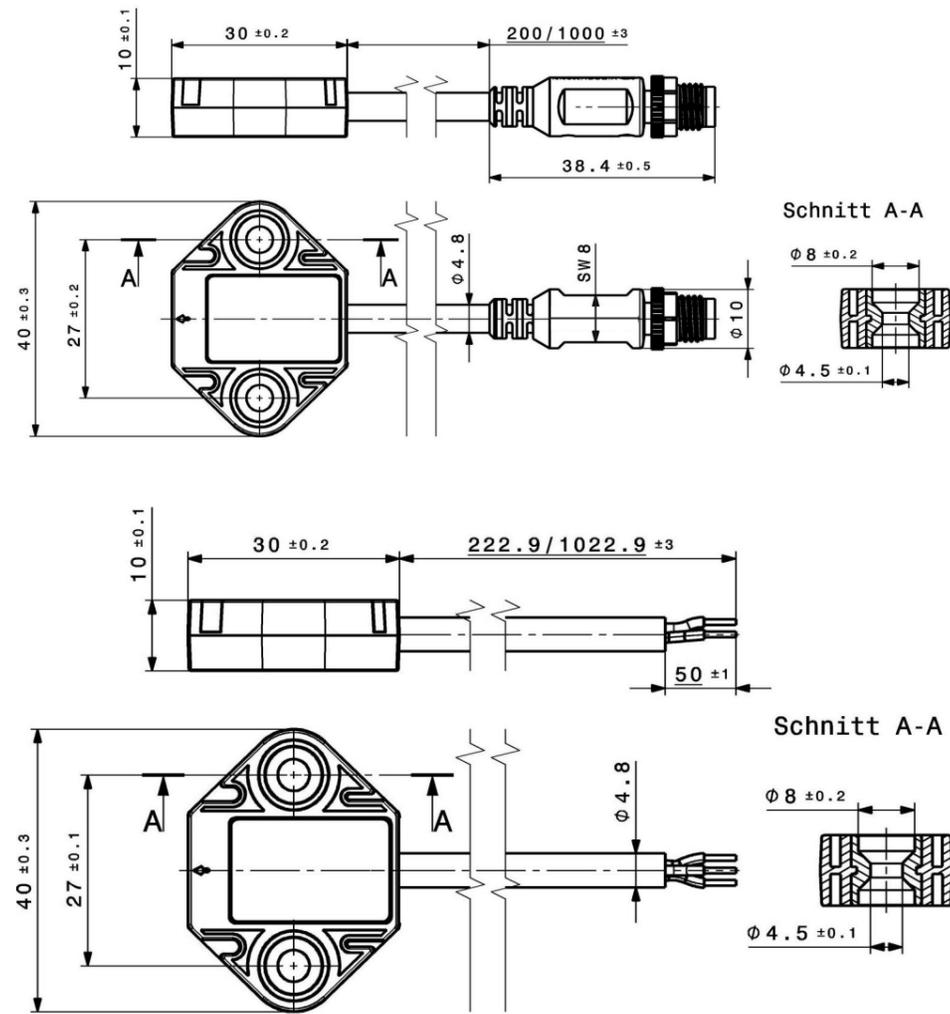
MECHANICAL CHARACTERISTICS: SENSOR

cable diameter D max.	4,8 mm
cable length with M8 connector	200 or 1000 mm
cable length without M8 connector	1022,9 or 3022,9 mm
type of connector	M8x1
housing material	PA-6 GF30
cable jacket material	TPE, PUR
protection class with M8 connector	IP66 / IP67 / IPx9k
protection class without M8 connector	IP66 / IPx9k
vibration resistance	DIN EN 60947-5-2
min. ambient temperature	-40 °C
max. ambient temperature	125°C



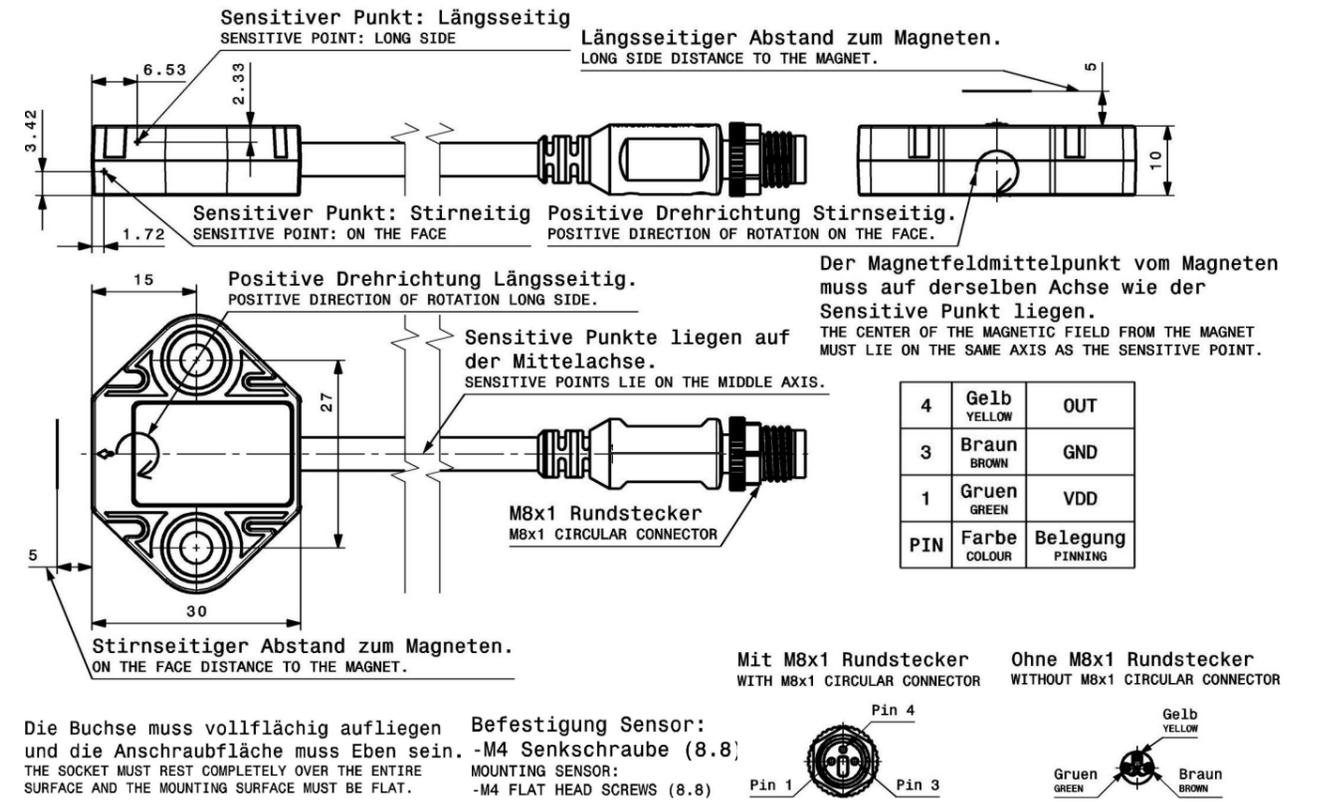
On request custom connectors, output signal programming, shielding and custom magnet designs are possible. The sensor is programmed before delivery with a master magnet. The magnetic flux density in the sensitive area of the sensor is approx. 25 mT. This flux density can be achieved, for example, by installing a ring magnet with the dimensions $D_a = 17\text{mm}$, $D_i = 11\text{mm}$, $h = 4\text{mm}$ out of the material N42SH. The magnet used, determines the accuracy of the sensor signal.

PRODUCT DRAWINGS

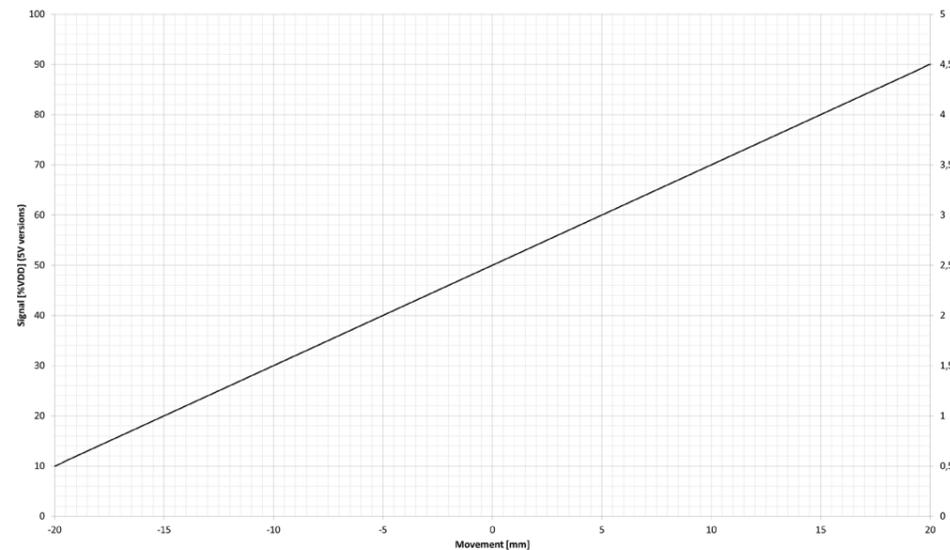


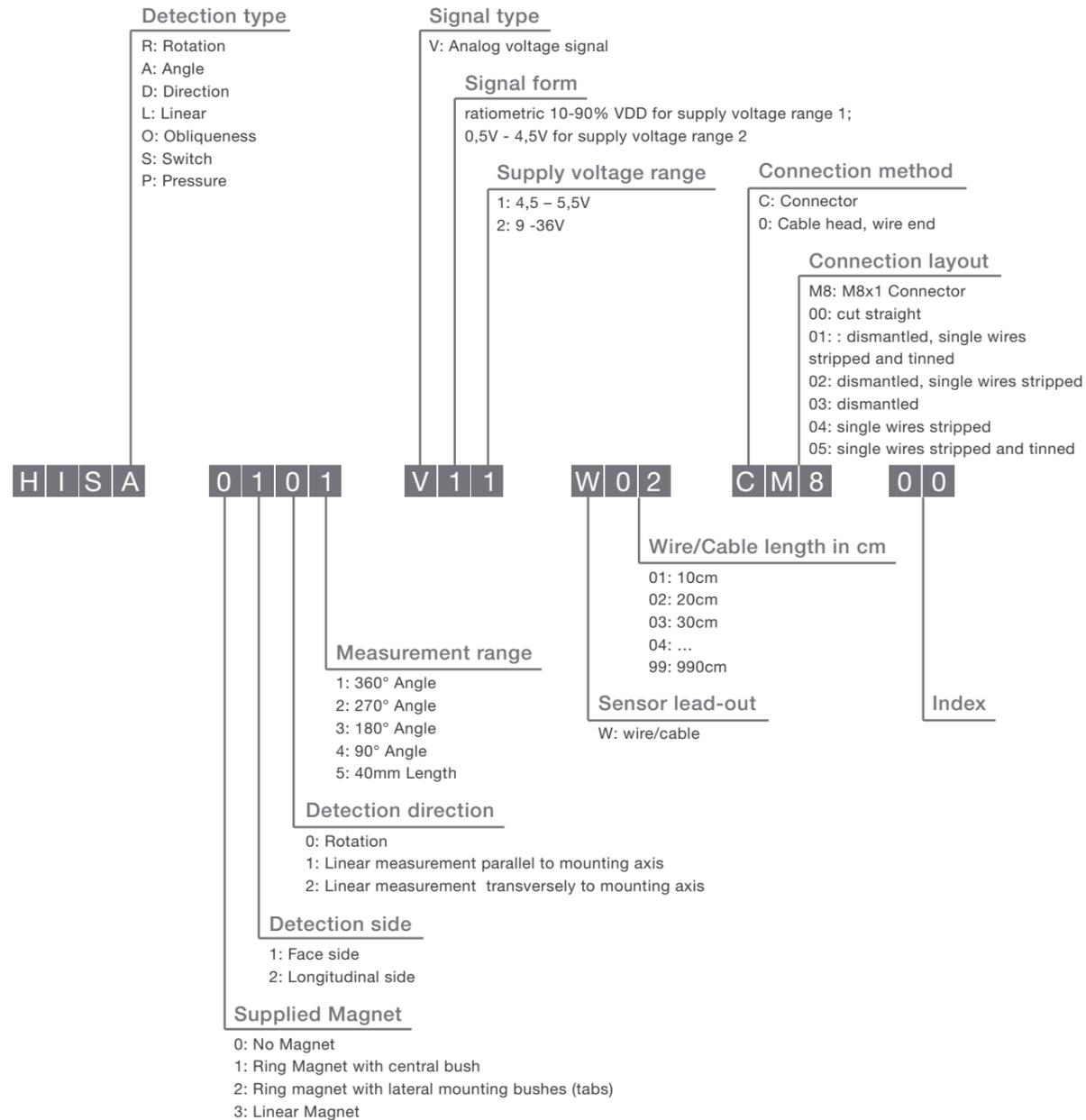
MOUNTING DESCRIPTION

Dargestellt ist nur der Sensor ohne Magnet.
SHOWN IS THE SENSOR WITHOUT THE MAGNET.

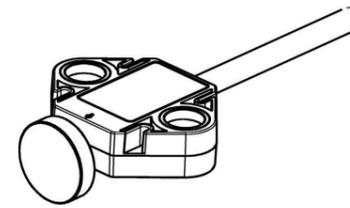


Output characteristics HISL 5V / 36V



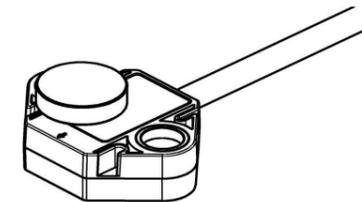


PRODUCT OVERVIEW – MAGNET POSITION FACE SIDE



Article Number	Dection Side	Cable End	Meas. Range
HISA-0101-V11-W02-CM8-00	face side	with connector 200 mm	360°
HISA-0101-V11-W10-CM8-00	face side	with connector 1000 mm	360°
HISA-0101-V11-W30-001-00	face side	without connector 3022,9 mm	360°
HISA-0101-V11-W10-001-00	face side	without connector 1022,9 mm	360°
HISA-0101-V12-W02-CM8-00	face side	with connector 200 mm	360°
HISA-0101-V12-W10-CM8-00	face side	with connector 1000 mm	360°
HISA-0101-V12-W30-001-00	face side	without connector 3022,9 mm	360°
HISA-0101-V12-W10-001-00	face side	without connector 1022,9 mm	360°

PRODUCT OVERVIEW – MAGNET POSITION LENGTH SIDE



Article Number	Dection Side	Cable End	Meas. Range
HISA-0201-V11-W02-CM8-00	length side	with connector 200 mm	360°
HISA-0201-V11-W10-CM8-00	length side	with connector 1000 mm	360°
HISA-0201-V11-W30-001-00	length side	without connector 3022,9 mm	360°
HISA-0201-V11-W10-001-00	length side	without connector 1022,9 mm	360°
HISA-0201-V12-W02-CM8-00	length side	with connector 200 mm	360°
HISA-0201-V12-W10-CM8-00	length side	with connector 1000 mm	360°
HISA-0201-V12-W30-001-00	length side	without connector 3022,9 mm	360°
HISA-0201-V12-W10-001-00	length side	without connector 1022,9 mm	360°



Position Sensors

HISL

GENERAL CHARACTERISTICS

Wear-free, programmable, magnetic Hall sensors for length measurement. A magnetic field generated by a permanent magnet is outputted according to a longitudinal motion in a linear output voltage. Available with connecting cable with or without M8 Connector.

ELECTRICAL CHARACTERISTICS	5V variants	36V variants
min. operating voltage	4,5V	9V
max. operating voltage <85°C	5,5V	36V
max. operating voltage <125°C	5,5V	25V
output signal	ratiometric, analog voltage-signal	
min. output signal	10 kΩ load resistor (PULL- Down)	10%VDD
max. output signal	10 kΩ load resistor (PULL- Down)	90%VDD
max. signal deviation	measuring range 40mm/mech. positioning accuracy ± 0,1mm/HIS - magnet/-40°C ... 85°C	± 2,5%5V
fulfilled EMC-standards	EN13309:2010	EN13309:2010 EN60947-5-2:2007

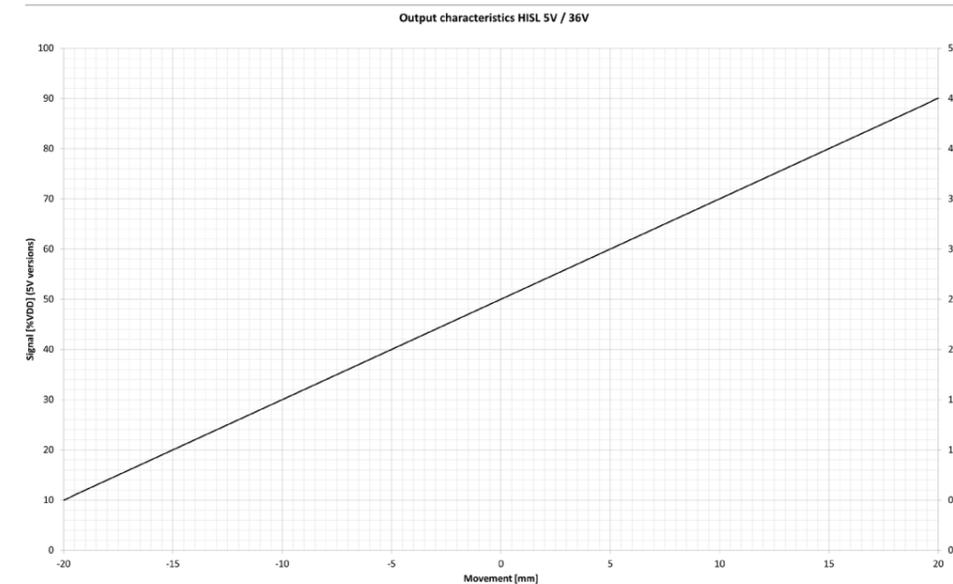
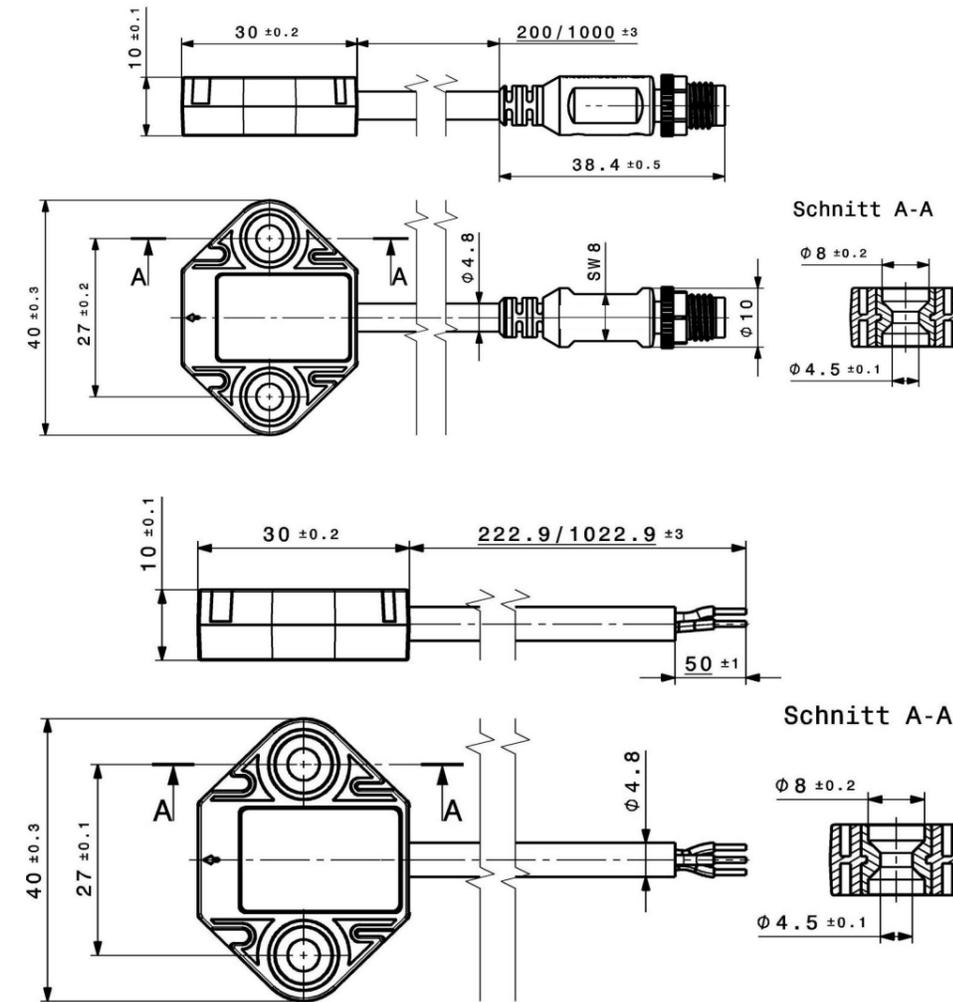
MECHANICAL CHARACTERISTICS: SENSOR	
cable length with M8 connector	200 oder 1000 mm
cable length without M8 connector	1022,9 oder 3022,9 mm
type of connector	M8x1
housing material	PA-6 GF30
cable jacket material	TPE, PUR
protection calss with M8 connector	IP66 / IP67 / IPx9k
protection class without M8 connector	IP66 / IPx9k
vibration resistance	DIN EN 60947-5-2
min. ambient temperature	-40 °C
max. ambient temperature	125 °C

MECHANICAL CHARACTERISTICS: MAGNET	
housing material	PA-66 GF25
magnet material	N42SH
min. ambient temperature	-40 °C
max. ambient temperature	125 °C

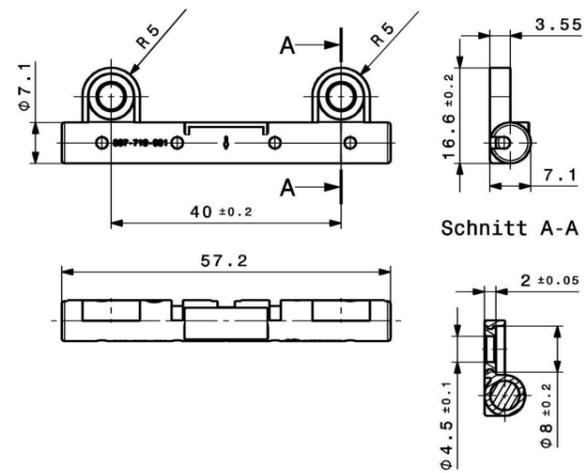
No direct impact on the magnet is allowed.

i On request custom connectors, output signal programming, shielding and custom magnet designs are possible.

PRODUCT DRAWINGS

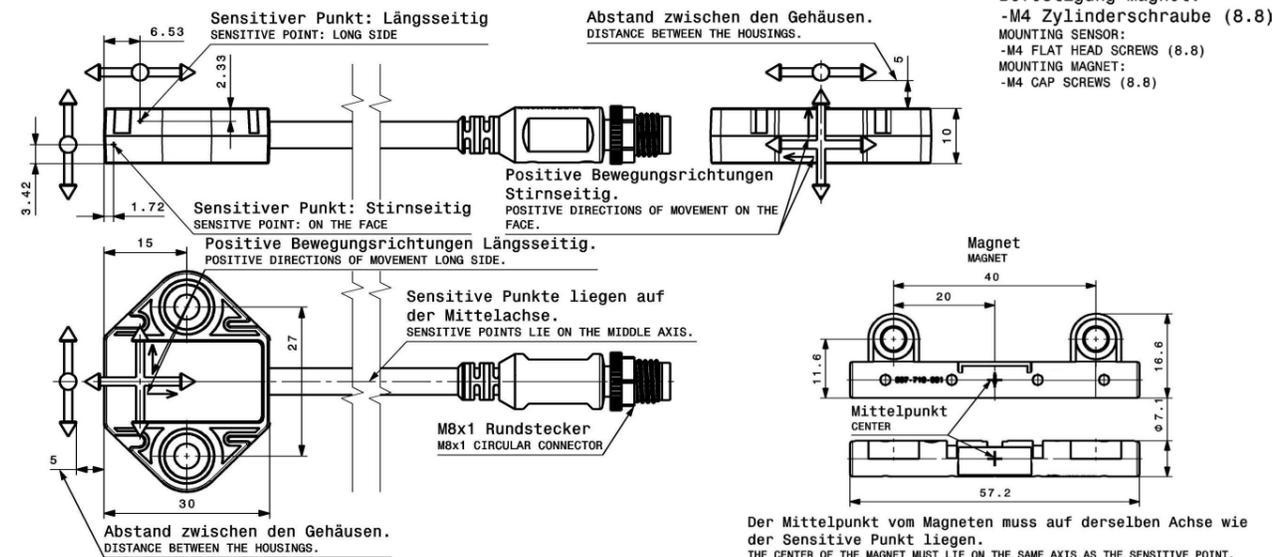


MAGNET DRAWING



MOUNTING DESCRIPTION

Die Bewegungsrichtungen vom Magneten sind schematisch dargestellt und veranschaulichen ebenfalls die Montagepositionen.
THE MOVING DIRECTION OF THE MAGNETS ARE SHOWN SCHEMATICALLY AND ALSO ILLUSTRATE THE MOUNTING POSITIONS.



Mit M8x1 Rundstecker
WITH M8x1 CIRCULAR CONNECTOR

Ohne M8x1 Rundstecker
WITHOUT M8x1 CIRCULAR CONNECTOR



4	Gelb YELLOW	OUT
3	Braun BROWN	GND
1	Grün GREEN	VDD
PIN	Farbe COLOUR	Belegung PINNING

Die Anschraubfläche muss Eben sein.
THE MOUNTING SURFACE MUST BE FLAT.
Die Buchse muss vollflächig aufliegen.
THE SOCKET MUST REST COMPLETELY OVER THE ENTIRE SURFACE.

Befestigung Sensor:
-M4 Senkschraube (8.8)
Befestigung Magnet:
-M4 Zylinderschraube (8.8)
MOUNTING SENSOR:
-M4 FLAT HEAD SCREWS (8.8)
MOUNTING MAGNET:
-M4 CAP SCREWS (8.8)

Detection type

R: Rotation
A: Angle
D: Direction
L: Linear
O: Obliqueness
S: Switch
P: Pressure

Signal type

V: Analog voltage signal

Signal form

ratiometric 10-90% VDD for supply voltage range 1;
0,5V - 4,5V for supply voltage range 2

Supply voltage range

1: 4,5 - 5,5V
2: 9 - 36V

Connection method

C: Connector
0: Cable head, wire end

Connection layout

M8: M8x1 Connector
00: cut straight
01: : dismantled, single wires stripped and tinned
02: dismantled, single wires stripped
03: dismantled
04: single wires stripped
05: single wires stripped and tinned

H I S L

0 1 0 1

V 1 1

W 0 2

C M 8

0 0

Measurement range

1: 360° Angle
2: 270° Angle
3: 180° Angle
4: 90° Angle
5: 40mm Length

Detection direction

0: Rotation
1: Linear measurement parallel to mounting axis
2: Linear measurement transversely to mounting axis

Detection side

1: Face side
2: Longitudinal side

Supplied Magnet

0: No Magnet
1: Ring Magnet with central bush
2: Ring magnet with lateral mounting bushes (tabs)
3: Linear Magnet

Wire/Cable length in cm

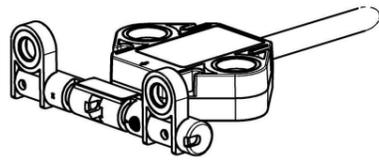
01: 10cm
02: 20cm
03: 30cm
04: ...
99: 990cm

Sensor lead-out

W: wire/cable

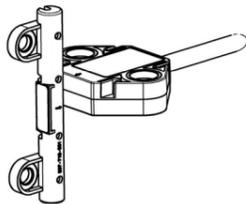
Index

PRODUCT OVERVIEW – MOUNTING POSITION FACE SIDE



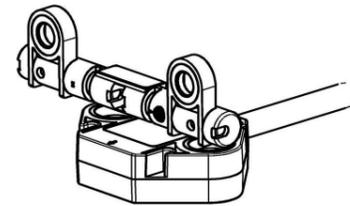
Article Number	Magnet Orientation	Detection Side	Cable End
HISL-3115-V11-W02-CM8-00	parallel to mounting axis	face side	with connector 200mm
HISL-3115-V11-W10-CM8-00	parallel to mounting axis	face side	with connector 1000mm
HISL-3115-V11-W30-001-00	parallel to mounting axis	face side	without 3022,9mm
HISL-3115-V11-W10-001-00	parallel to mounting axis	face side	without 1022,9mm
HISL-3115-V12-W02-CM8-00	parallel to mounting axis	face side	with connector 200mm
HISL-3115-V12-W10-CM8-00	parallel to mounting axis	face side	with connector 1000mm
HISL-3115-V12-W30-001-00	parallel to mounting axis	face side	without 3022,9mm
HISL-3115-V12-W10-001-00	parallel to mounting axis	face side	without 1022,9mm

PRODUCT OVERVIEW – MOUNTING POSITION FACE SIDE



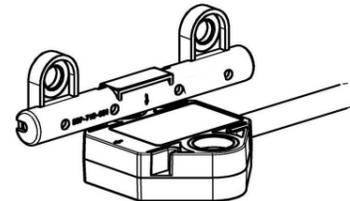
Article Number	Magnet Orientation	Detection Side	Cable End
HISL-3125-V11-W02-CM8-00	transversely to mounting axis	face side	with connector 200mm
HISL-3125-V11-W10-CM8-00	transversely to mounting axis	face side	with connector 1000mm
HISL-3125-V11-W30-001-00	transversely to mounting axis	face side	without 3022,9mm
HISL-3125-V11-W10-001-00	transversely to mounting axis	face side	without 1022,9mm
HISL-3125-V12-W02-CM8-00	transversely to mounting axis	face side	with connector 200mm
HISL-3125-V12-W10-CM8-00	transversely to mounting axis	face side	with connector 1000mm
HISL-3125-V12-W30-001-00	transversely to mounting axis	face side	without 3022,9mm
HISL-3125-V12-W10-001-00	transversely to mounting axis	face side	without 1022,9mm

PRODUCT OVERVIEW – MOUNTING POSITION LENGTH SIDE

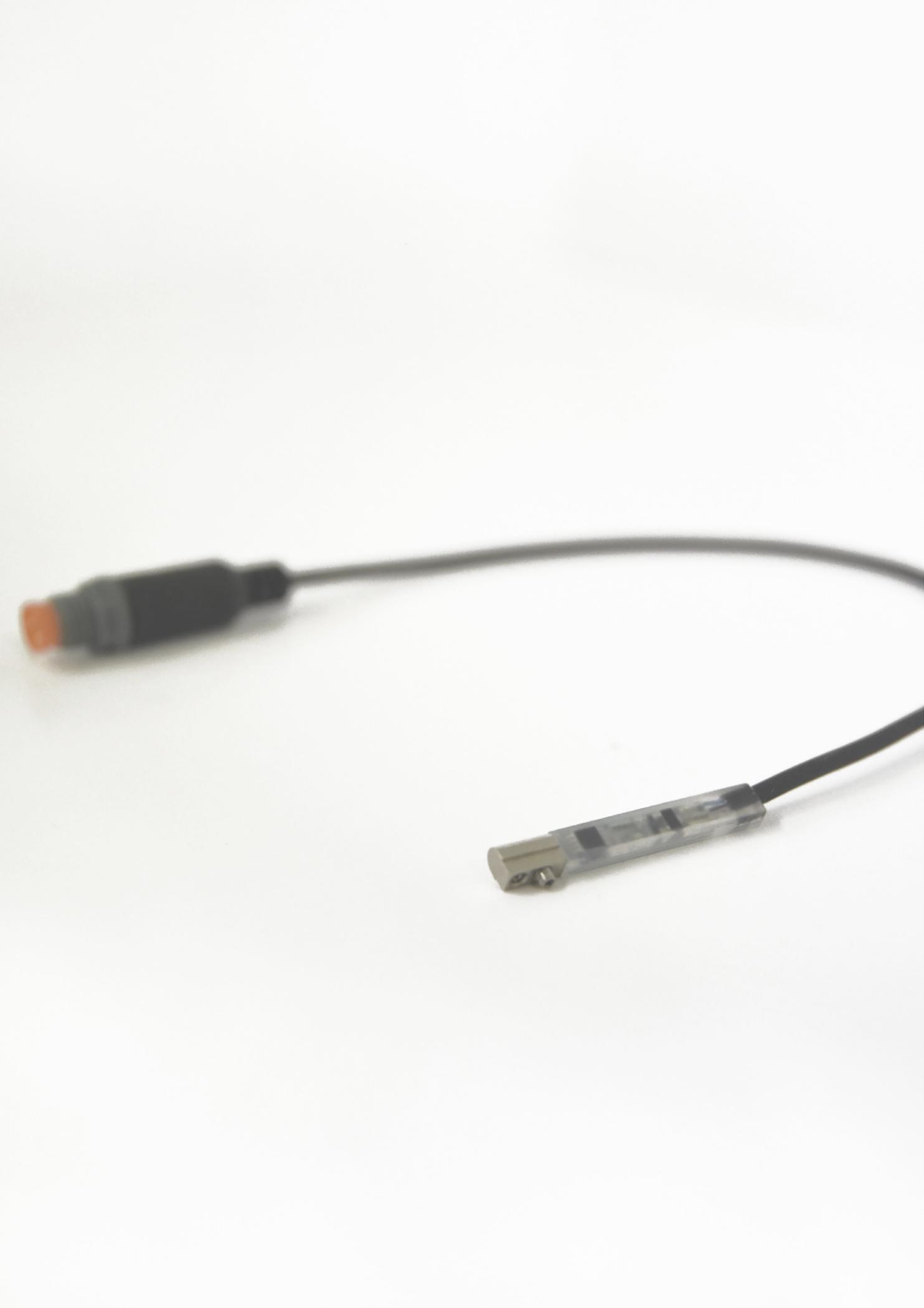


Article Number	Magnet Orientation	Detection Side	Cable End
HISL-3215-V11-W02-CM8-00	parallel to mounting axis	length side	with connector 200mm
HISL-3215-V11-W10-CM8-00	parallel to mounting axis	length side	with connector 1000mm
HISL-3215-V11-W30-001-00	parallel to mounting axis	length side	without 3022,9mm
HISL-3215-V11-W10-001-00	parallel to mounting axis	length side	without 1022,9mm
HISL-3215-V12-W02-CM8-00	parallel to mounting axis	length side	with connector 200mm
HISL-3215-V12-W10-CM8-00	parallel to mounting axis	length side	with connector 1000mm
HISL-3215-V12-W30-001-00	parallel to mounting axis	length side	without 3022,9mm
HISL-3215-V12-W10-001-00	parallel to mounting axis	length side	without 1022,9mm

PRODUCT OVERVIEW – MOUNTING POSITION LENGTH SIDE



Article Number	Magnet Orientation	Detection Side	Cable End
HISL-3225-V11-W02-CM8-00	transversely to mounting axis	length side	with connector 200mm
HISL-3225-V11-W10-CM8-00	transversely to mounting axis	length side	with connector 1000mm
HISL-3225-V11-W30-001-00	transversely to mounting axis	length side	without 3022,9mm
HISL-3225-V11-W10-001-00	transversely to mounting axis	length side	without 1022,9mm
HISL-3225-V12-W02-CM8-00	transversely to mounting axis	length side	with connector 200mm
HISL-3225-V12-W10-CM8-00	transversely to mounting axis	length side	with connector 1000mm
HISL-3225-V12-W30-001-00	transversely to mounting axis	length side	without 3022,9mm
HISL-3225-V12-W10-001-00	transversely to mounting axis	length side	without 1022,9mm



Switch

HISS

HISS

GENERAL CHARACTERISTICS

product description	Magnetic cylinder sensors are mainly used to monitor the piston position on cylinders and grippers. The sensor detects the field of the magnet integrated in the piston through the actuator wall. Thanks to the non-contact position detection, our magnetic cylinder sensors work reliably and wear-free. Even at high process speeds, the piston position is detected reliably.
norm	IEC 60947-5-2
protection class IEC 60529	IP 66

ELECTRICAL CHARACTERISTICS

min. operating voltage	10 V
max. operating voltage	30 V
output	Open- Collector pnp- logic
switching status via LED	Yes
fulfilled EMC-standards	The surge voltage resistance is given only with external TVS diodes. EN60947-5-2:2007 Teil 5-2

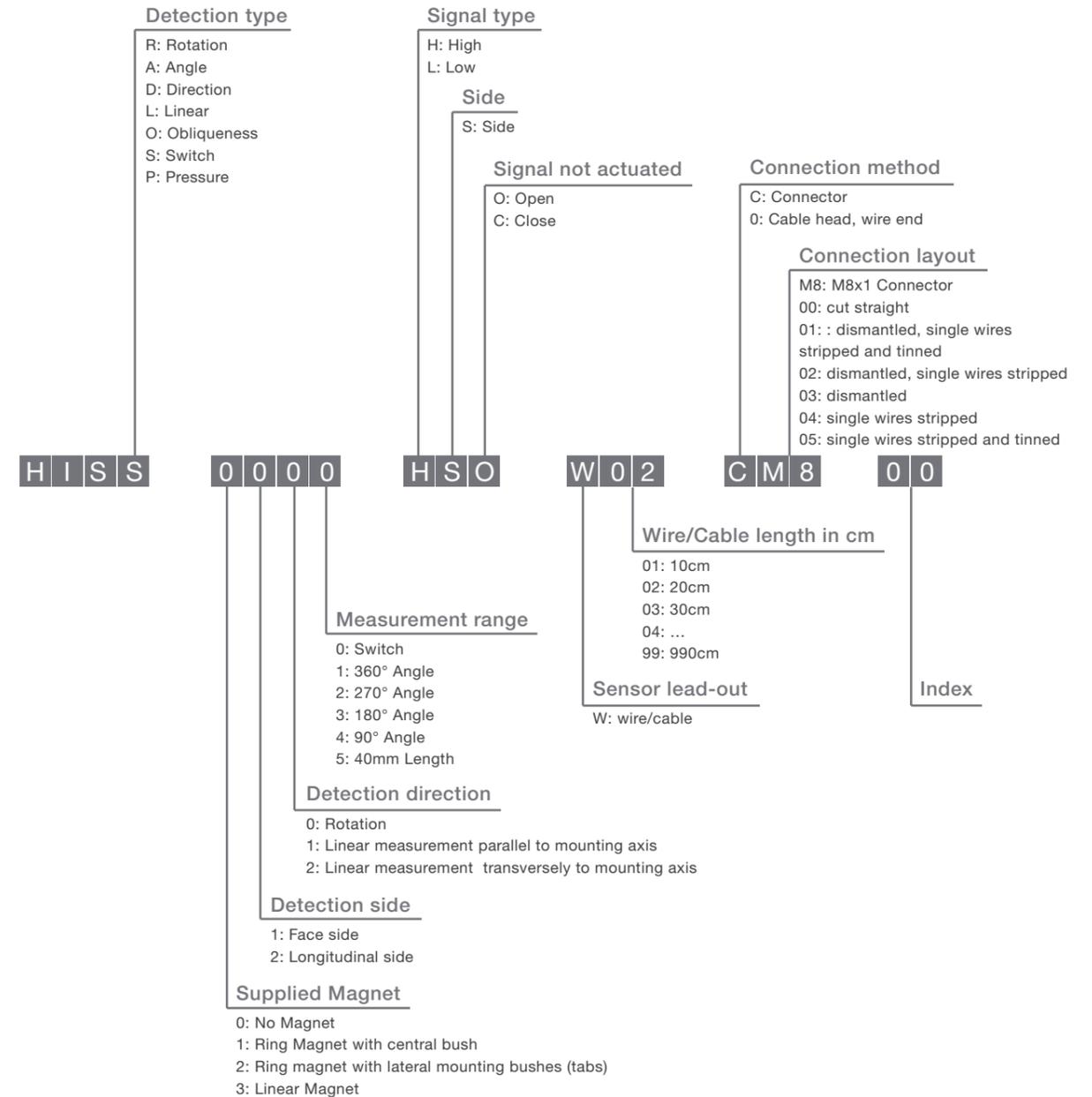
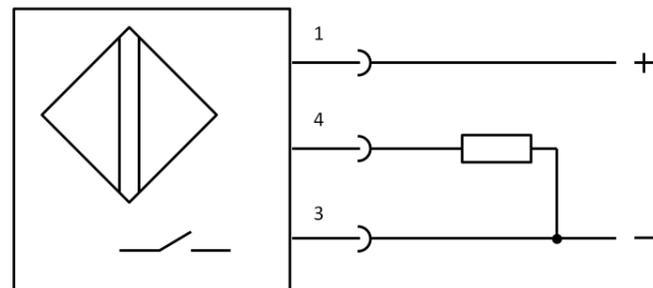
MECHANICAL CHARACTERISTICS

available cable lengths L	0,2 / 0,3 / 0,6 m
connector	M8x1
housing material	PA-66
cable material	PUR
min. ambient temperature	-30 °C
max. ambient temperature	85 °C

direct mechanical impacts on the magnetic cylinder sensor are not permitted!

PRODUCT OVERVIEW

HISS-0001-HSO-W02-CM8-00	cable length 20cm	high sensitivity of the switching element
HISS-0001-HSO-W03-CM8-00	cable length 30cm	high sensitivity of the switching element
HISS-0001-HSO-W06-CM8-00	cable length 60cm	high sensitivity of the switching element
HISS-0002-HSO-W02-CM8-00	cable length 20cm	lower sensitivity of the switching element
HISS-0002-HSO-W03-CM8-00	cable length 30cm	lower sensitivity of the switching element
HISS-0002-HSO-W06-CM8-00	cable length 60cm	lower sensitivity of the switching element



M8 St. 0° / M8 Bu. 0°

GENERAL CHARACTERISTICS

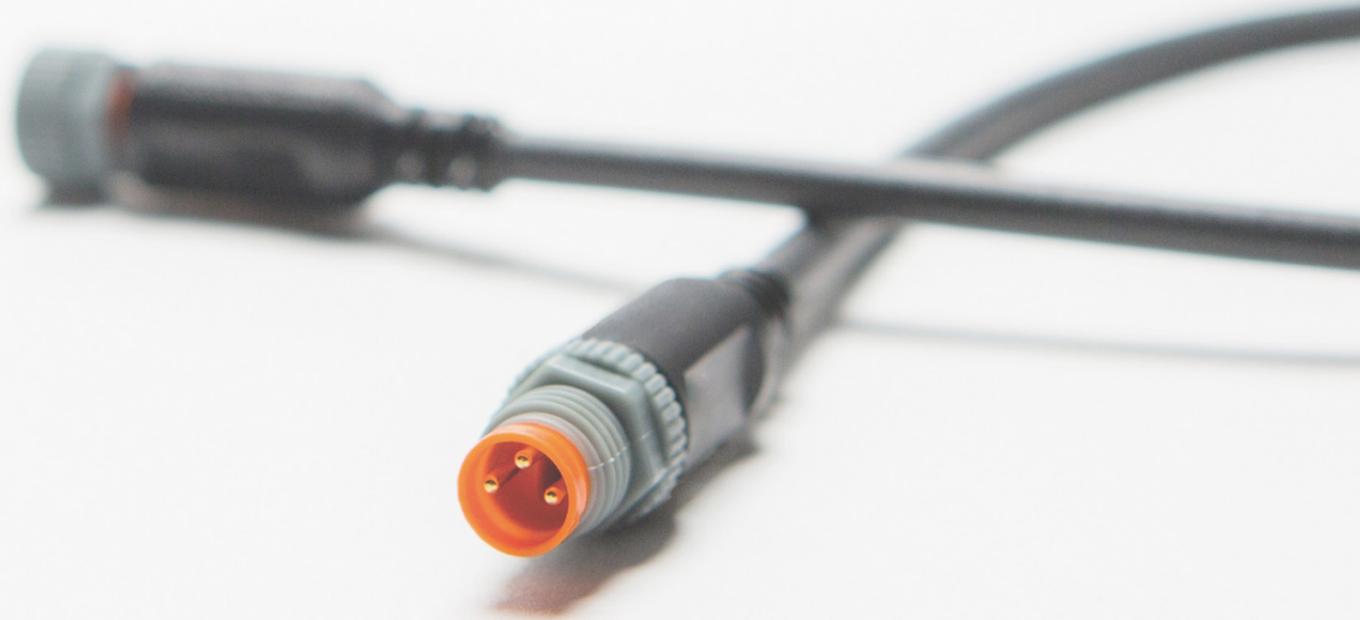
product description	connecting harness (e.g. sensor - actor) with M8 connectors male-female, 3-way
Grundnorm	IEC 61076-2-104
Schutzart nach IEC 60529	connected / screwed IP66K / IP 67

TECHNICAL DATA

max. operating voltage	60 V
max. load per contact	4 A
material	PA-66
contact surface	gold plated
available length	0,3/0,6/1/1,5/2/3,5/5 m

CABLE

square	3x0,25 mm ²
cable material	PUR
diameter ø	ca. 4,3 mm
min. ambient temperature	-30 °C
max. ambient temperature	85 °C



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