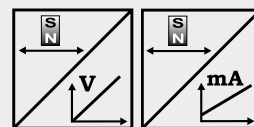




POSICHRON® rod-style position sensor

- For hydraulic cylinders, fluid level measurement
- Protection class up to IP67/IP69K
- Measurement range 0 ... 100 to 0 ... 5750 mm
- Absolute position measurement
- Contactless
- Replaceable electronics without leakage
- Analog output



Specifications

Output	Voltage Current
Resolution	Refer to output specification
Sampling rate	Up to 1 kHz, depending on the measurement range
Linearity	Ranges >500 mm: L10 = ±0.10 % f.s. L02 = ±0.02 % f.s. Ranges ≤500 mm: L10 = ±0.5 mm L02MM = ±0.2 mm
Repeatability	±3 µm
Housing material	Sensor rod: stainless steel 1.4404, head: AlMgSi
Mounting	Thread M18x1,5 / thread ¾ inch
Working pressure of sensor rod	400 bar, other values on request
Protection class	IP67 (optional IP67/IP69K; connector version: with mating connector only)
Shock	EN 60068-2-27:2010, 50 g 11 ms, 100 shocks
Vibration	EN 60068-2-6:2008, 20 g 10 Hz-2 kHz, 10 cycles
Connection	8 pin socket M12, cable 2 m
EMC, temperature	Refer to output specification

Order code PCST24 1 channel

Model name PCST24 - - - - - - -

Mounting

M18 = Thread M18x1,5
Z3/4 = Thread ¾" -16 UNF

Measurement range (in mm)

100 ... 5750 (in 10 mm increments)
other lengths upon request

Output

U1 = 0 ... 10 V signal conditioner
U1/H = U1 with Alarm_HOLD (see page 16)
U2 = 0.5 ... 10 V signal conditioner
U2/U; U2/H = U2 with Alarm_LOW; U2 with Alarm_HOLD (see page 16)
U8 = 0.5 ... 4.5 V signal conditioner
U8/U; U8/H = U8 with Alarm_LOW; U8 with Alarm_HOLD (see page 16)
I1 = 4 ... 20 mA signal conditioner (3 wire)
I1/U; I1/H = I1 with Alarm_LOW; I1 with Alarm_HOLD (see page 16)

Function and characteristics output

P1A = Position Magnet 1, increasing
P1D = Position Magnet 1, decreasing
PMU = Start value, direction & end value adjustable by the customer

Linearity

L02 / L02MM / L10 (for definition see "Specifications" above)

Connection

M12 = Connector M12, 8 pin
KAB2M = Cable, standard length 2 m, other lengths upon request

Order code PCST24

2 channel,
configurable

PCST24

Model name

Mounting

M18 = Thread M18 x 1,5

Z3/4 = Thread 3/4"-16UNF

Measurement range (in mm)

100 ... 5750 (in 10 mm increments)

other lengths upon request

Output

U1 = 0 ... 10 V signal conditioner

U1/H = U1 with Alarm_HOLD (see page 16)

U2 = 0.5 ... 10 V signal conditioner

U2/U; U2/H = U2 with Alarm_LOW; U2 with Alarm_HOLD (see page 16)

U8 = 0.5 ... 4.5 V signal conditioner

U8/U; U8/H = U8 with Alarm_LOW; U8 with Alarm_HOLD (see page 16)

I1 = 4 ... 20 mA signal conditioner (3 wire)

I1/U; I1/H = I1 with Alarm_LOW; I1 with Alarm_HOLD (see page 16)

Function and characteristics output 1

P1A = Position magnet 1, increasing

P1D = Position magnet 1, decreasing

DA = Difference magnet 1/2, increasing (2 magnets required)

DD = Difference magnet 1/2, decreasing (2 magnets required)

Function and characteristics output 2

P2A = Position magnet 2, increasing

P2D = Position magnet 2, decreasing

DA = Difference magnet 1/2, increasing

DD = Difference magnet 1/2, decreasing

2 magnets required

VZx.x = Velocity with direction detection (with 1 magnet only)

VZx.x = Velocity in steps of 0.1 m/s

Example: VZ1.5 towards start position

towards end position

-1.5 m/s 0 +1.5 m/s

Output U2: 0.5 V 5.25 V 10 V

Output I1: 4 mA 12 mA 20 mA

VAx.x = Velocity without direction detection (with 1 magnet only)

VAx.x = Velocity in steps of 0.1 m/s

Example: VA1.5 towards start position

towards end position

-1.5 m/s 0 +1.5 m/s

Output U2: 10 V 0.5 V 10 V

Output I1: 20 mA 4 mA 20 mA

Linearity

L02 / L02MM / L10 (for definition see "Specifications" above)

Connection

M12 = Connector M12, 8 pin

KAB2M = Cable, standard length 2 m, other lengths upon request

Order example: PCST24 - M18 - 1000 - U2 - P1D - L10 - M12

Rod-style design, measurement range 1000 mm, 1 voltage output 0.5 ... 10 V (U2)

Output 1: Position magnet 1, decreasing signal (P1D)

Output 2: Not used

Order code position magnet (see page 9-13)

PCSTMAG ...

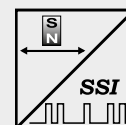
Order code mating connecting cable (see page 20)

KAB- ...M-M12/8F/G-LITZE



POSICHRON® rod-style position sensor

- For hydraulic cylinders, fluid level measurement
- Protection class up to IP67/IP69K
- Measurement range 0 ... 100 to 0 ... 5750 mm
- Absolute position measurement
- Contactless
- Replaceable electronics without leakage
- Synchronous serial interface (SSI)



Specifications

Output	Synchronous serial interface (SSI)
Resolution	5, 10, 20, 50, 100 µm
Sampling rate	Up to 1 kHz, depending on the measurement range
Linearity	Ranges >500 mm: L10 = ±0.10 % f.s. L02 = ±0.02 % f.s. Ranges ≤500 mm: L10 = ±0.5 mm L02MM = ±0.2 mm
Repeatability	±3 µm
Housing material	Sensor rod: stainless steel 1.4404, head: AlMgSi
Mounting	Thread M18x1,5 / thread ¾ inch
Working pressure of sensor rod	400 bar, other values on request
Protection class	IP67 (optional IP67/IP69K; connector version: with mating connector only)
Shock	EN 60068-2-27:2010, 50 g/11 ms, 100 shocks
Vibration	EN 60068-2-6:2008, 20 g 10 Hz-2 kHz, 10 cycles
Connection	8 pin socket M12, cable 2 m
EMC, temperature	Refer to output specification

Order code PCST24

PCST24 - [] - [] - [] - [] / [] / [] - [] - []

Model name

Mounting

M18 = Thread M18 x 1,5
Z3/4 = Thread ¾ "-16UNF

Measurement range (in mm)

100 ... 5750 (in 10 mm increments)
other lengths upon request

Resolution [in µm]

5 / 10 / 20 / 50 / 100

Output

SSI = Synchronous serial interface

Code

G / D = Gray / Dual

Number of data bits

24 / 25

Linearity

L02 / L02MM / L10 (for definition see "Specifications" above)

Connection

M12 = Connector M12, 8 pin
KAB2M = KAB2M = Cable, standard length 2 m, other lengths upon request

Order code position magnet (see page 9-13)

PCSTMAG ...

Order code mating connecting cable (see page 20)

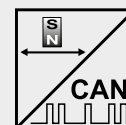
KAB- ...M-M12/8F/G-LITZE

Order example: PCQA24 - M18 - 2500 - 10 - SSI/G/24 - L10 - M12



POSICHRON® rod-style position sensor

- Replaceable electronics without leakage
- Protection class up to IP67/IP69K
- Measurement range 0 ... 100 to 0 ... 5750 mm
- Absolute position measurement
- Contactless
- For hydraulic cylinders, fluid level measurement
- CANopen bus or CAN SAE J1939 output



Specifications

Output	CANopen bus; CAN SAE J1939
Resolution	50 µm
Sampling rate	Up to 1 kHz, depending on the measurement range
Linearity	Ranges >500 mm: L10 = ±0.10 % f.s. L02 = ±0.02 % f.s. Ranges ≤500 mm: L10 = ±0.5 mm L02MM = ±0.2 mm
Repeatability	±3 µm
Housing material	Sensor rod: stainless steel 1.4404, head: AlMgSi
Mounting	Thread M18x1,5 / thread ¾ inch
Working pressure of sensor rod	400 bar, other values on request
Protection class	IP67 (optional IP67/IP69K; connector version: with mating connector only)
Shock	EN 60068-2-27:2010, 50 g 11 ms, 100 shocks
Vibration	EN 60068-2-6:2008, 20 g 10 Hz-2 kHz, 10 cycles
Connection	5 pin socket M12
EMC, temperature	Refer to output specification

Order code PCST24

PCST24 - [] - [] - [] - [] - []

Model name

Mounting

M18 = Thread M18 x 1,5

Z3/4 = Thread ¾ "-16UNF

Measurement range (in mm)

100 ... 5750 (in 10 mm increments)

other lengths upon request

Output

CANOP = CANopen bus

CANOP/R = CANopen bus with integrated terminating resistance

CANJ1939 = CAN SAE J1939

Linearity

L02 / L02MM / L10 (for definition see "Specifications" above)

Connection

M12/CAN = Connector M12, 5 pin

Order code position magnet (see page 9-13)

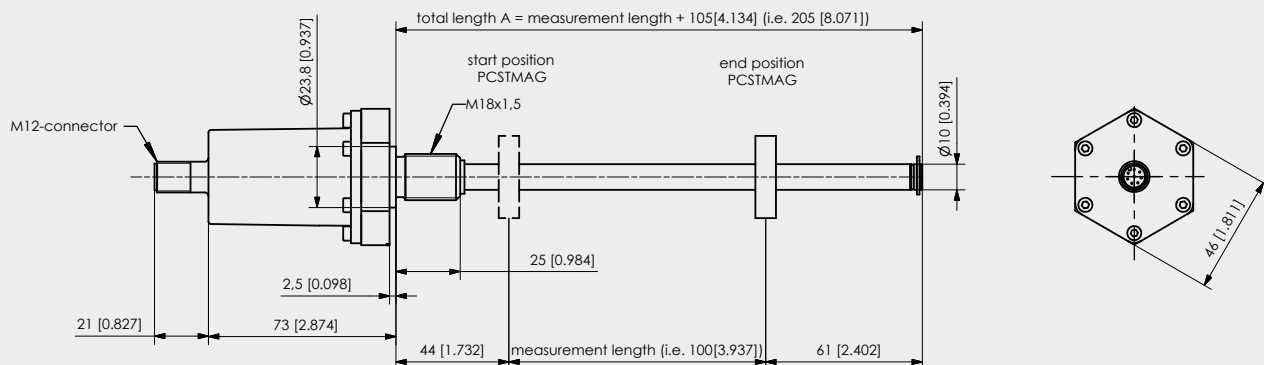
PCSTMAG ...

Order code mating connecting cable (see page 21)

KAB- ...M-M12/5F/G-M12/5M/G - CAN

Order example: PCST24 - M18 - 2000 - CANOP - L10 - M12/CAN

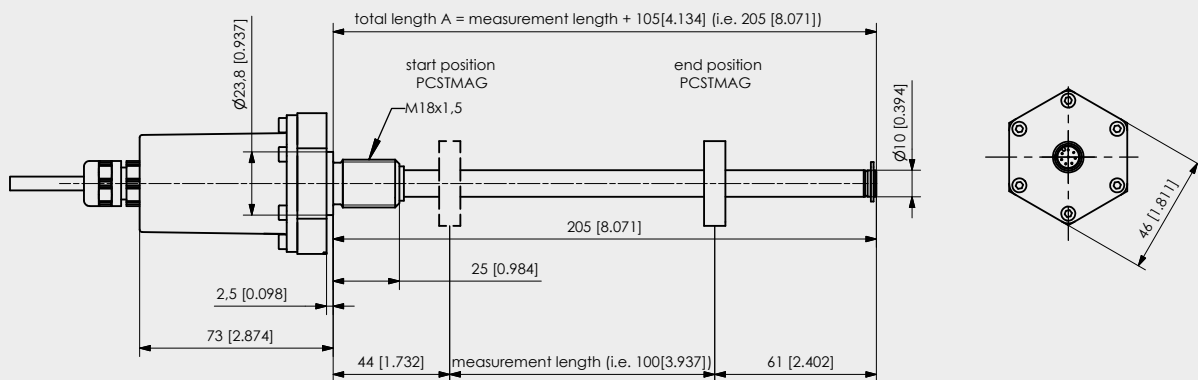
Connector M12



Dimensions in mm [inch]

Dimensions informative only. For guaranteed dimensions consult factory.

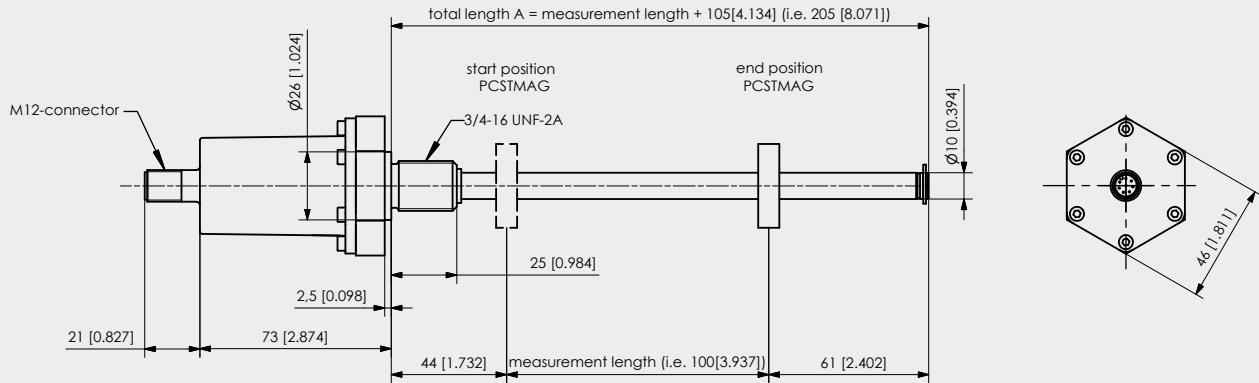
Cable output



Dimensions in mm [inch]

Dimensions informative only. For guaranteed dimensions consult factory.

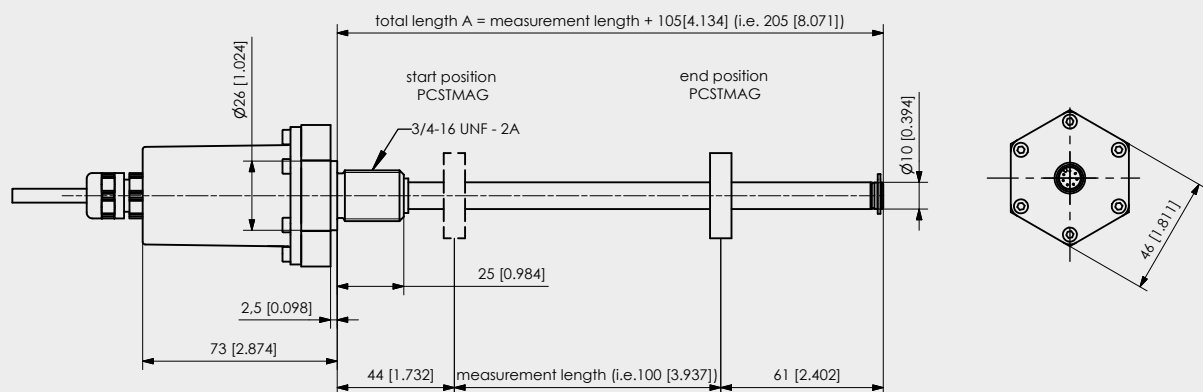
Connector M12



Dimensions in mm [inch]

Dimensions informative only. For guaranteed dimensions consult factory.

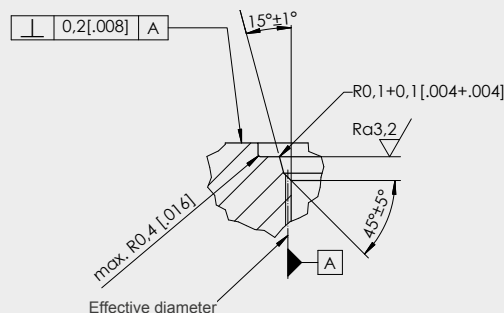
Cable output



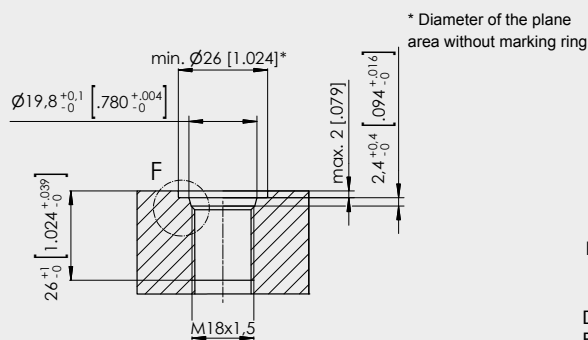
Dimensions in mm [inch]

Dimensions informative only. For guaranteed dimensions consult factory.

**Mounting hole
 M18**



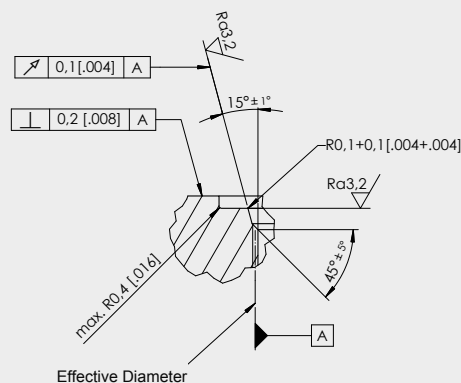
Drive hole and pivot M18 x 1,5
 according to ISO 6149



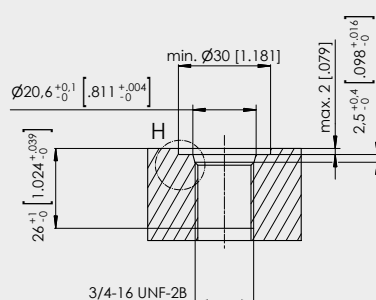
Dimensions in mm [inch]

Dimensions informative only.
 For guaranteed dimensions
 consult factory.

**Mounting hole
 3/4 Zoll**



Drive hole according to ISO 11926-1
 UN/UNF thread 2B according
 to ANSI B1.1/ISO 725
 Pivot according to ISO 11926-2 and 3
 UN/UNF thread 2A according
 to ANSI B1.1/ISO 725
 Sealing by O-ring



Dimensions in mm [inch]

Dimensions informative only.
 For guaranteed dimensions
 consult factory.

**O-ring sealing
(M18)**

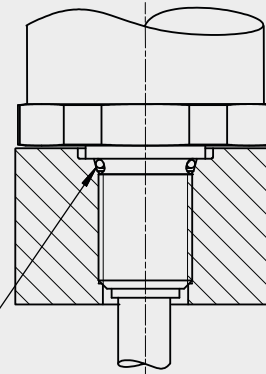
for:

PCST24-M18...
PCST25-M18...
PCST27-M18...

Dimensions in mm [inch]

Dimensions informative only.
For guaranteed dimensions
consult factory.

O-Ring 15,3 x 2,2
[.602 x .087]



Order code O-ring M18

PCST-OR-M18

**O-ring sealing
(¾ Zoll)**

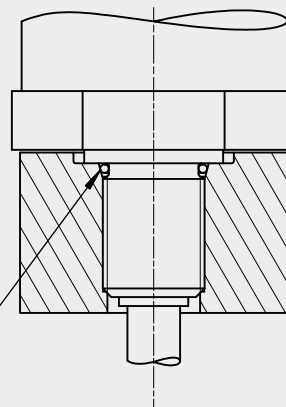
for:

PCST24-Z3/4...
PCST25-Z3/4...
PCST27-Z3/4...

Dimensions in mm [inch]

Dimensions informative only.
For guaranteed dimensions
consult factory.

O-Ring 16,36 x 2,2
[.644 x .087]



Order code O-ring ¾ inch

PCST-OR-Z3/4

**O-ring sealing
(Plug-in version)**

for:

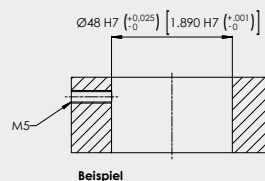
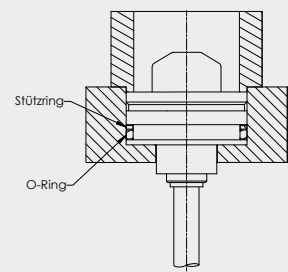
PCST25-SV...

Dimensions in mm [inch]

Dimensions informative only.
For guaranteed dimensions
consult factory.

Ø48 H7 $\left(\begin{smallmatrix} +0,025 \\ -0 \end{smallmatrix} \right)$ [1.890 H7 $\left(\begin{smallmatrix} +.001 \\ -0 \end{smallmatrix} \right)$]

Example



Beispiel

Gewindestift

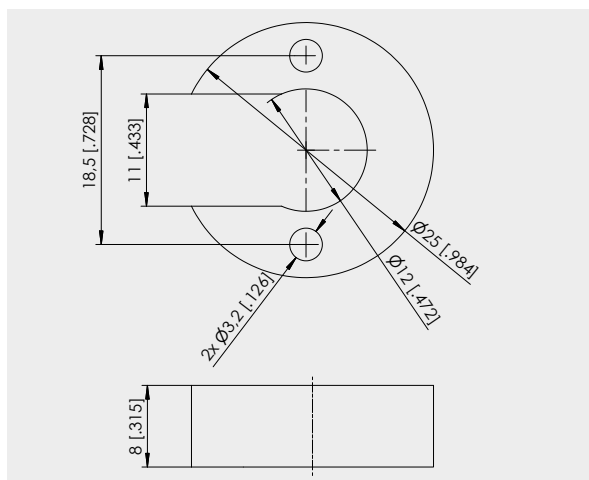
Stützring

O-Ring

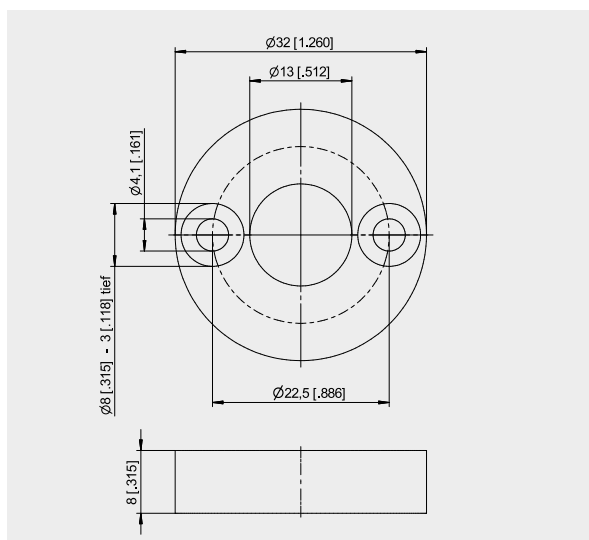
Order code O-ring Plug-in version

PCST-OR-SV

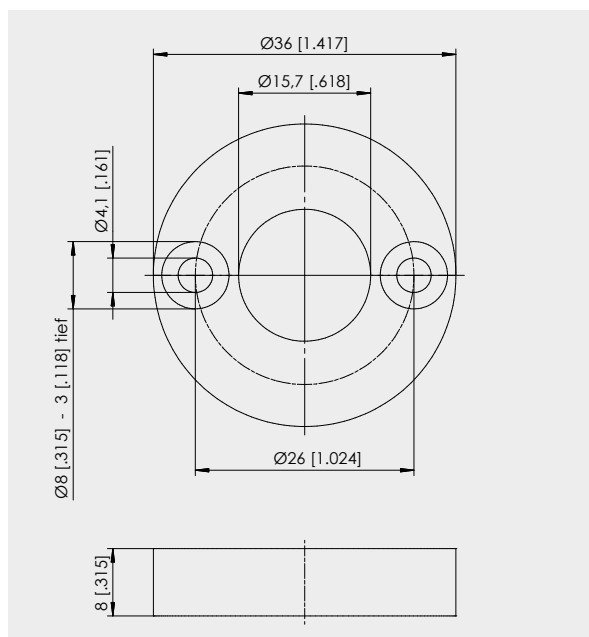
PCSTMAG1



PCSTMAG2
(standard)



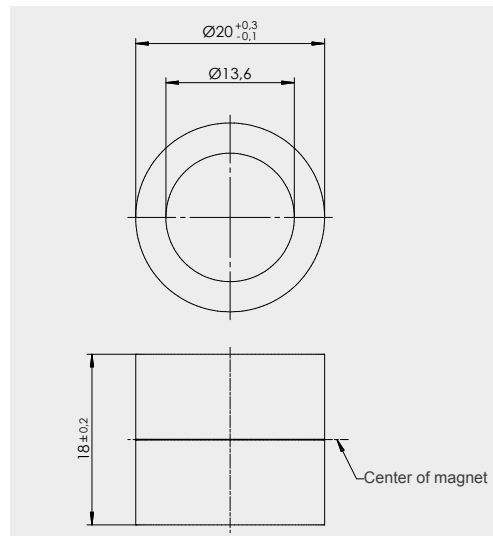
PCSTMAG5



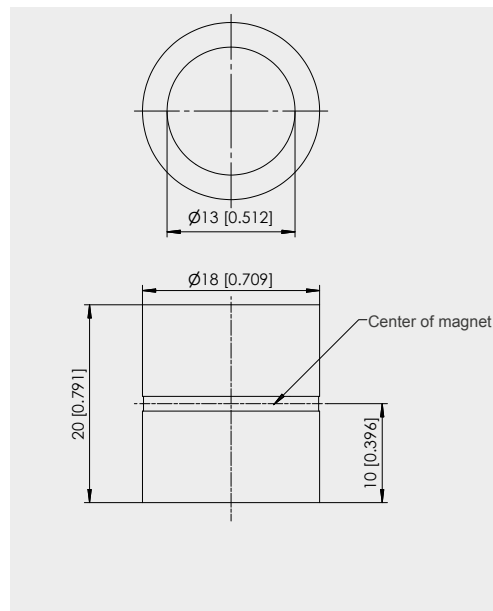
Dimensions in mm [inch]

Dimensions informative only.
For guaranteed dimensions
consult factory.
Other designs can be realized
on request.

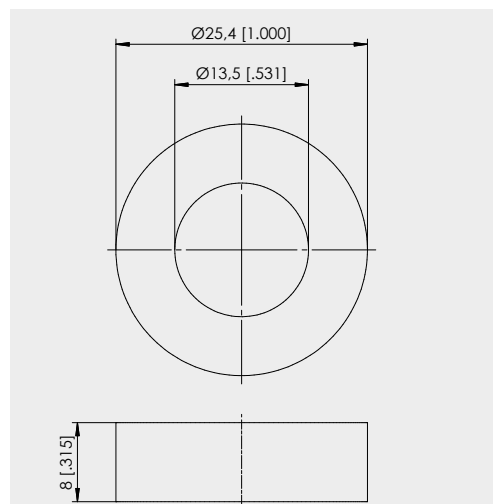
PCSTMAG2-MH1



PCSTMAG2-MH2



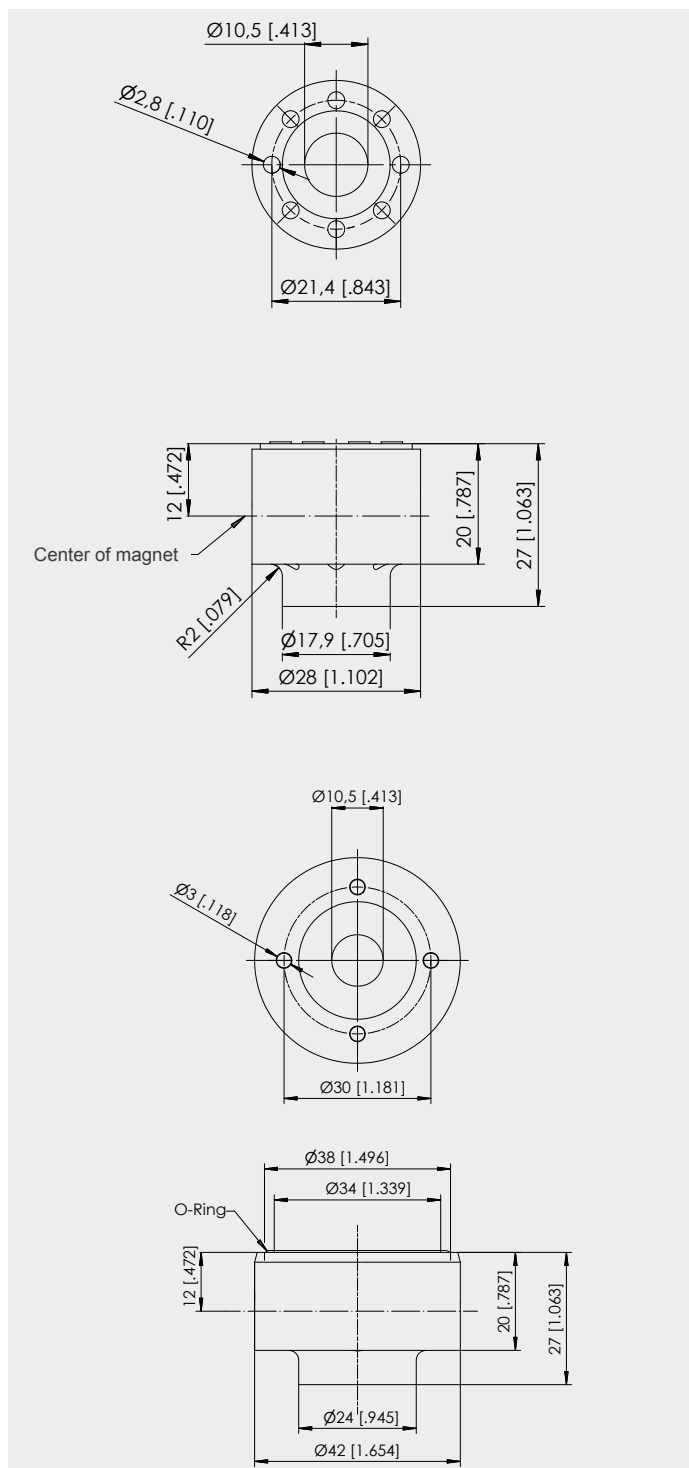
PCSTMAG2-MH3



Dimensions in mm [inch]

Dimensions informative only.
For guaranteed dimensions consult factory.
Other designs can be realized on request

PCSTMAG2-G1



PCSTMAG2-G2

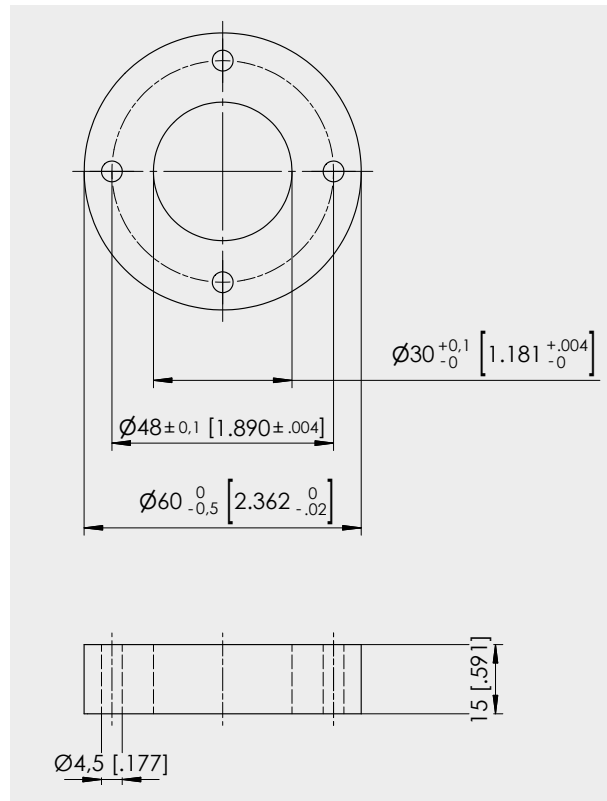
PCSTMAG2 - G1 / G2

Sliding magnet with special self-lubricating and abrasion-resistant material. To be used if sensor is mounted in horizontal position and a mechanical support of the rod is not possible for measurement ranges >1000 mm.

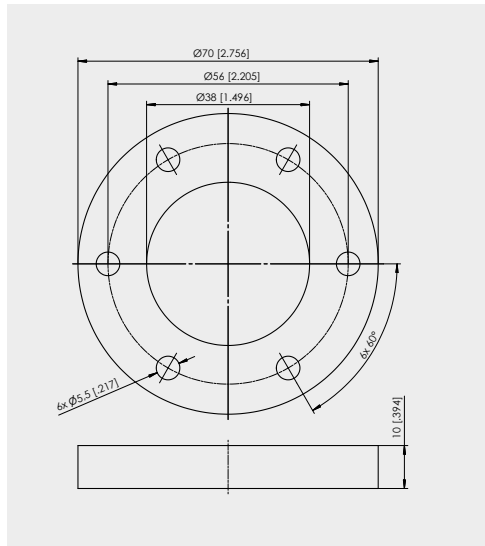
Dimensions in mm [inch]

Dimensions informative only.
For guaranteed dimensions consult factory.
Other designs can be realized on request

PCSTMAG7



PCSTMAG4



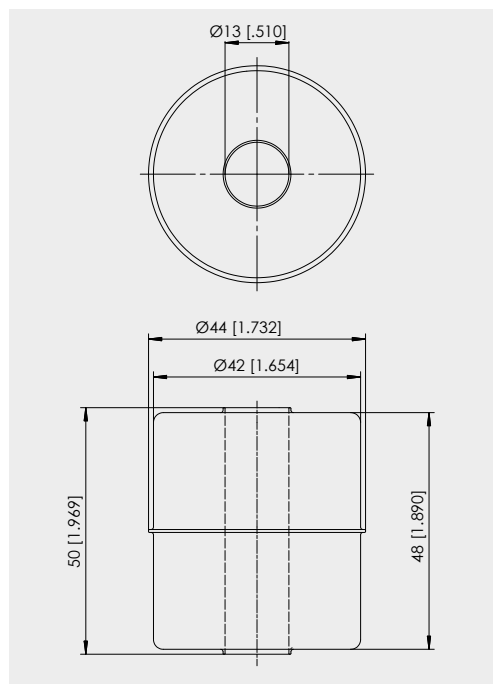
Dimensions in mm [inch]

Dimensions informative only.
For guaranteed dimensions consult factory.
Other designs can be realized on request

PCSTMAG3

(float, continuous pressure up to 9 bar, for media with a specific gravity of $\geq 0,75 \text{ g/cm}^3$)

Material: 1.4404

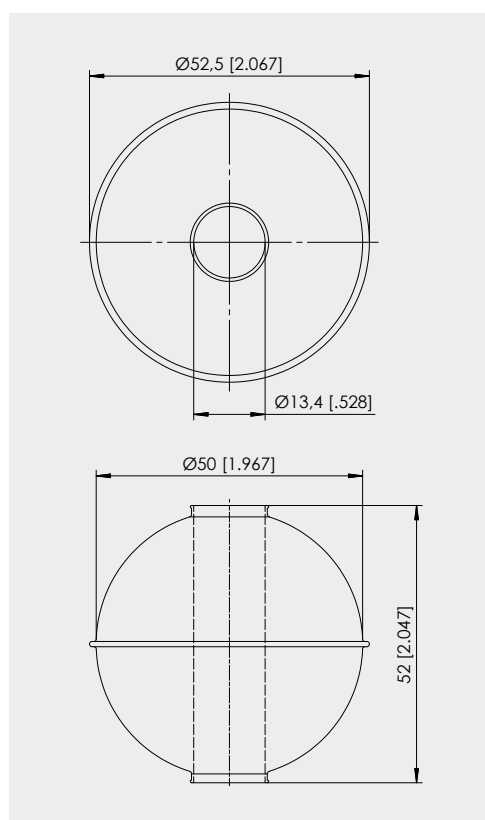


Note: Dependent on the design the available measurement range is reduced of 25 mm on both ends!

PCSTMAG6

(float, continuous pressure up to 30 bar, for media with a specific gravity of $\geq 0,7 \text{ g/cm}^3$)

Material: 1.4571



Note: Dependent on the design the available measurement range is reduced of 25 mm on both ends!

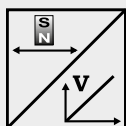
Dimensions in mm [inch]

Dimensions informative only.
For guaranteed dimensions consult factory.
Other designs can be realized on request

Output Specification U2, U8 and I1

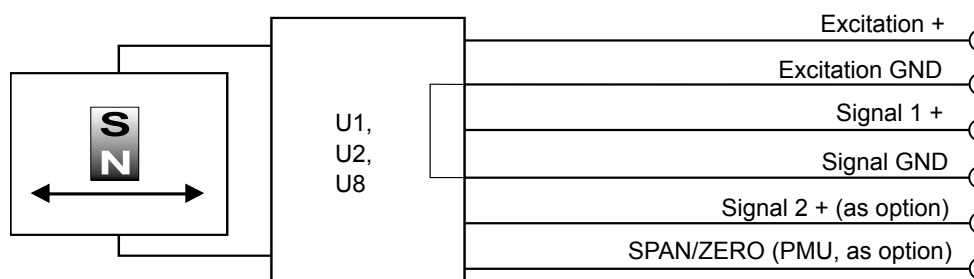
Configurable, 1 or 2 channels

U1, U2, U8 Voltage output

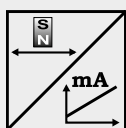


Excitation voltage	U1: 18 ... 36 V DC; U2: 18 ... 36 V DC; U8: 10 ... 36 V
Excitation current	Typ. 35 mA, 80 mA max.
Output voltage	U1: 0 ... 10 V DC; U2: 0.5 ... 10 V DC; U8: 0.5 ... 4.5 V DC
Output current	2 mA max.
Output load	> 5 kΩ
Resolution	16 bit f.s., min. 10 μm
Stability (temperature)	±50 x 10 ⁻⁶ / °C f.s.
Protection	Reverse polarity, short circuit
Output noise	0.5 mV _{RMS}
Operating temperature	-40 ... +85 °C
EMC	EN 61326-1:2013

Signal diagram

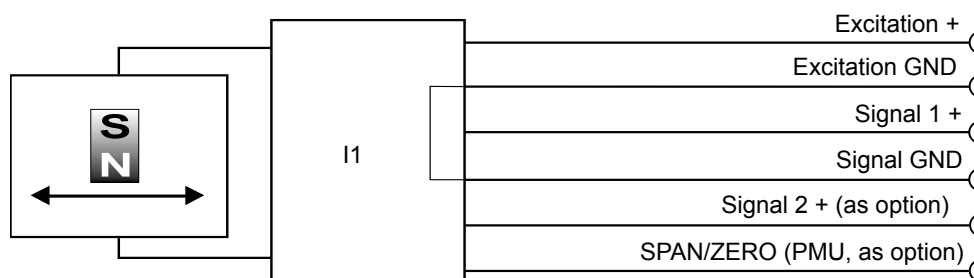


I1 Current output (3 wire)



Excitation voltage	18 ... 36 V DC (10 ... 36 V for R _L ≤ 250Ω)
Excitation current	Typ. 60 mA, 80 mA max.
Load resistor	350 Ω max.
Output current	4 ... 20 mA, 30 mA max (at failure)
Resolution	16 bit f.s., min. 10 μm
Stability (temperature)	±50 x 10 ⁻⁶ / °C f.s.
Protection	Reverse polarity, short circuit
Output noise	0.5 mV _{RMS}
Operating temperature	-40 ... +85 °C
EMC	EN 61326-1:2013

Signal diagram

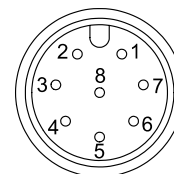


Connector M12, 8-pin

Signal wiring

Signal	Plug connection	Cable connection
Excitation +	1	white
Excitation GND	2	brown
Signal 1 +	3	green
Signal GND	4	yellow
Signal 2 + (optional*)	5	grey
SPAN/ZERO (PMU** only, optional)	6	pink

View to the
sensor connector



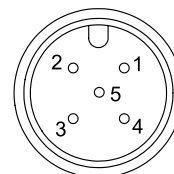
* When using multiple magnets the distance between two magnets must be min. 70 mm to identify the single magnets definitely. ** Description page 16

Connector M12, 5-pin

Signal wiring

Signal	Plug connection
Excitation +	1
Signal 1 +	2
GND	3
Signal 2 + (optional*)	4
PMU** (optional)	5

View to the
sensor connector



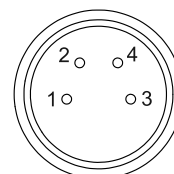
* When using multiple magnets the distance between two magnets must be min. 70 mm to identify the single magnets definitely. ** Description page 16

Connector M8, 4-pin

Signal wiring

Signal	Plug connection
Excitation +	1
Excitation GND	2
Signal +	3
PMU** (optional)	4

View to the
sensor connector



* When using multiple magnets the distance between two magnets must be min. 70 mm to identify the single magnets definitely. ** Description page 16

Option - PMU for analog output U1, U2, U8 and I1

Programming of the start and end value by the customer:

The option PMU allows to program the start value and the end value of the output range by a programming signal SPAN/ZERO available at the connector. This Signal SPAN/ZERO must be connected with GND via a push button, then position magnet of the sensor must be moved to the start resp. end position. Pushing the button between 2 and 4 seconds sets the actual position as start position, pushing the button more than 5 seconds sets the actual position as end position. The values will be stored and are available after switching off the sensor.

To reset the sensor to the factory values the button must be pushed for longer than two seconds when the sensor is switched on.

Diagnostic on analog outputs

Behaviour of the analog signal output in case of error

In case of error (magnet missing or outside the measuring range) the analog output signal will assume a state according to the following options:

Alarm_HIGH

The output voltage resp. the output current is at HIGH level (overrange).

Alarm_LOW

The output voltage resp. the output current is at LOW level (underrange).

Alarm_HOLD

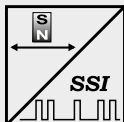
The output voltage resp. the output current will keep the last valid state.

	Alarm_HIGH (standard)	Alarm_LOW (.../U)	Alarm_HOLD (.../H)
U1	$U_{out} \geq 10,5 \text{ V}$	—	keeps last valid state (Order code U1/H)
U2	$U_{out} \geq 10,5 \text{ V}$	$U_{out} < 0,25 \text{ V}$ (Order code U2/U)	keeps last valid state (Order code U2/H)
U8	$U_{out} \geq 10 \text{ V}$	$U_{out} < 0,25 \text{ V}$ (Order code U8/U)	keeps last valid state (Order code U8/H)
I1	$I_{out} \geq 21 \text{ mA}$	$1,5 \dots 2 \text{ mA}$ (Order code I1/U)	keeps last valid state (Order code I1/H)

Error signal for SSI output

If the sensor cannot detect a magnet the position value will assume the maximum value (0xFFFFFFFF).

Synchronous serial interface SSI

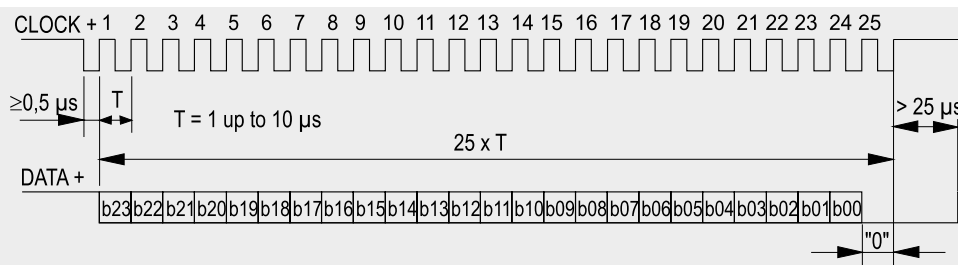


Output	RS422
Excitation voltage	10 ... 36 V DC, residual ripple 10 mV _{SS}
Excitation current	Typ. 80 mA, 150 mA max.
Clock frequency	100 kHz ... 1 MHz
Code	Gray code, dual code
Resolution	≥ 5 μm
Delay between pulse trains	>25 μs
Stability (temperature)	±50 x 10 ⁻⁶ / °C f.s.
Operating temperature	-40 ... +85 °C
EMC	EN 61326-1:2013

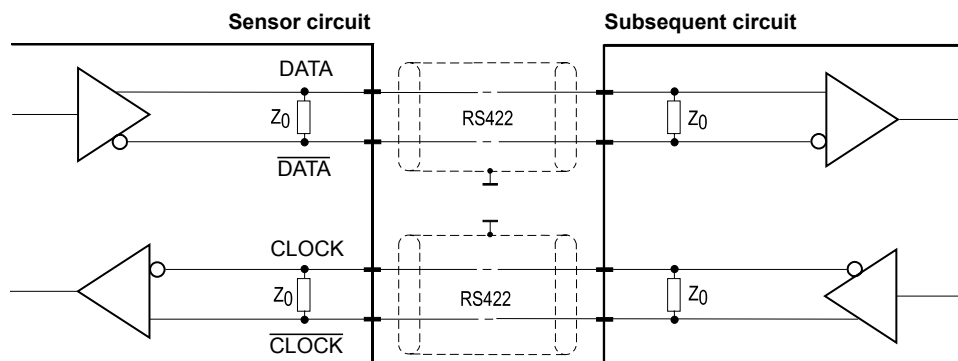
Description

The data transmission takes place by means of the two signals CLOCK and DATA. The processing unit (PLC, microcomputer) sends pulse sequences which clock the data transmission at the required transfer rate. With the first falling edge of the pulse sequence the position of the sensor is recorded and stored. The following rising edges control the bit-by-bit transfer of the data word. After a delay time the next new position information can be transwitted.

Data format (Train of 26 pulses)



Signal diagram



Cable length	Baud rate
50 m	100-1000 kHz
100 m	100-300 kHz

Note:
Extension of the cable length will reduce the maximum transmission rate.
The signals CLOCK/CLOCK and DATA/DATA must be connected in a twisted pair cable, common shielded.

Signal wiring

Signal	Plug connection	Cable connection
Excitation +	1	white
Excitation GND	2	brown
CLOCK	3	green
CLOCK	4	yellow
DATA	5	grey
DATA	6	pink

View to sensor connector

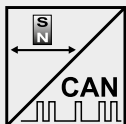


Error indication see page 16.

Description

CANopen interface with process data for position and cam functions, programmable are preset, resolution, filtering and cam switching points.

Interface CANOP



Communication profile	CANopen CiA 301 V 4.02, Slave
Encoder profile	Encoder CiA 406 V 3.2
Error Control	Node Guarding, Heartbeat, Emergency Message
Node ID	Adjustable via LSS or via object dictionary
PDO	4 TxPDO, 0 RxPDO, no linking, static mapping
PDO Modes	Event-/Time triggered, Remote-request, Sync cyclic/acyclic
SDO	1 server, 0 client
CAM	8 cams
Certified	Yes
Transmission rates	50 kBaud to 1 MBaud, adjustable via LSS or via object dictionary
Nodes	127 max.
Bus connection	M12 connector, 5 pins
Integrated bus terminating resistor	120 Ω (option)
Bus, galvanic isolated	No

Specifications

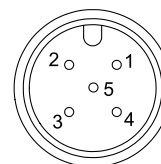
Excitation voltage	18 ... 36 V DC
Excitation current	Typ. 20 mA for 24 V, max. 80 mA
Number of position magnets	1 ... 4
Resolution	50 µm
Measuring rate	1 kHz (asynchronous)
Stability (temperature)	±50 x 10 ⁻⁶ / °C f.s.
Repeatability	1 LSB
Operating temperature	-40 ... +85 °C
Protection	Reverse polarity, short circuit
Dielectric strength	500 V (V AC, 50 Hz, 1 min.)
EMC	EN 61326-1:2013

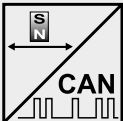
When using multiple magnets the distance between two magnets must be min. 70 mm to identify the single magnets definitely.

Signal wiring

Signal	Plug connection
Shield	1
Excitation +	2
GND	3
CAN-H	4
CAN-L	5

View to sensor connector



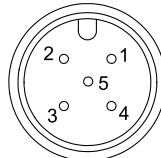
Interface J1939 	CAN specification	ISO 11898, Basic and Full CAN 2.0 B
	Transceiver	24V-compliant, not isolated
	Communication profile	SAE J1939
	Baud rate	250 kbit/s
	Internal termination resistor	120 Ω (option)
	Address	Default 247d, configurable

NAME Fields	Arbitrary address capable	0	No
	Industry group	0	Global
	Vehicle system	7Fh (127d)	Non specific
	Vehicle system instance	0	
	Function	FFh (255d)	Non specific
	Function instance	0	
	ECU instance	0	
	Manufacturer	145h (325d)	Manufacturer ID
	Identity number	0nnn	Serial number 21 bit

Parameter Group Numbers (PGN)	Configuration data	PGN EF00h	Proprietary-A (PDU1 peer-to-peer)
	Process data	PGN FFnnh	Proprietary-B (PDU2 broadcast); nn Group Extension (PS) configurable

Specifications	Excitation voltage	18 ... 36 V DC
	Excitation current	Typ. 20 mA for 24 V, max. 80 mA
	Measuring rate	1 kHz (asynchronous)
	Stability (temperature)	±50 x 10 ⁻⁶ / °C f.s.
	Repeatability	1 LSB
	Operating temperature	-40 ... +85 °C
	Protection	Reverse polarity, short circuit
	Dielectric strength	500 V (V AC, 50 Hz, 1 min.)
	EMC	EN 61326-1:2013

When using multiple magnets the distance between two magnets must be min. 70 mm to identify the single magnets definitely.

Signal wiring	Signal	Plug connection	View to sensor connector 
	Shield	1	
	Excitation +	2	
	GND	3	
	CAN-H	4	
	CAN-L	5	

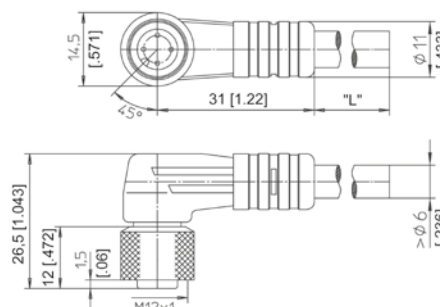
**Connector cable
M12, 5-pin
shielded**

The 5-lead shielded cable is supplied with a mating 5-pin 90° M12 connector at one end and 5 wires at the other end. Available lengths are 2 m, 5 m and 10 m. Wire: cross sectional area 0.34 mm².

Order code:

KAB - XM - M12/5F/W - LITZE
IP69K: KAB - XM - M12/5F/W/69K - LITZE

Length in m



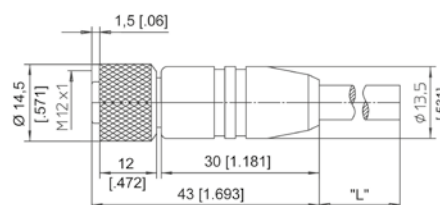
**Connector cable
M12, 5-pin
shielded**

The 5-lead shielded cable is supplied with a mating 5-pin M12 connector at one end and 5 wires at the other end. Available lengths are 2 m, 5 m and 10 m. Wire: cross sectional area 0.34 mm².

Order code:

KAB - XM - M12/5F/G - LITZE
IP69K: KAB - XM - M12/5F/G/69K - LITZE

Length in m



Signal wiring M12, 5-pin	Plug connection / Cable connection				
	1	2	3	4	5
	brown	white	blue	black	grey

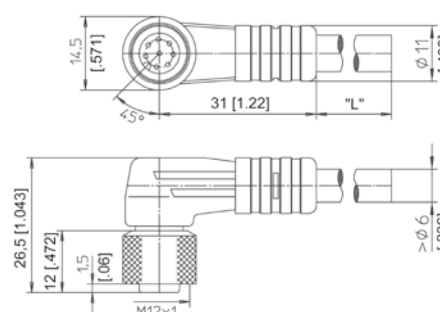
**Connector cable
M12, 8-pin
shielded**

The 8-lead shielded cable is supplied with a mating 8-pin 90° M12 connector at one end and 8 wires at the other end. Available lengths are 2, 5 and 10 m. Wire: cross sectional area 0.25 mm².

Order code:

KAB - XM - M12/8F/W - LITZE
IP69K: KAB - XM - M12/8F/W/69K - LITZE

Length in m



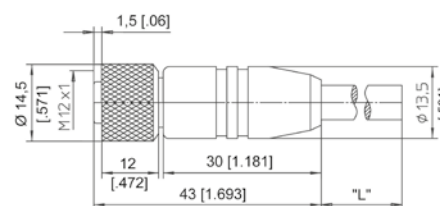
**Connector cable
M12, 8-pin
shielded**

The 8-lead shielded cable is supplied with a mating 8-pin M12 connector at one end and 8 wires at the other end. Available lengths are 2, 5 and 10 m. Wire: cross sectional area 0.25 mm².

Order code:

KAB - XM - M12/8F/G - LITZE
IP69K: KAB - XM - M12/8F/G/69K - LITZE

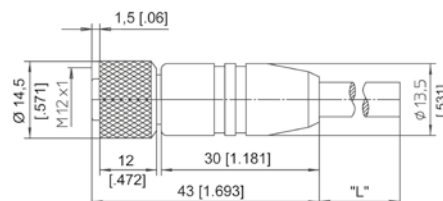
Length in m



Signal wiring M12, 8-pin	Plug connection / Cable connection							
	1	2	3	4	5	6	7	8
	white	brown	green	yellow	grey	pink	blue	red

Connector/bus cable
M12, 5-pin
CAN bus
shielded

The 5-lead shielded cable is supplied with a female 5-pin M12 connector at one end and a male 5-pin M12 connector at the other end. Available lengths are 0.3 m, 2 m, 5 m and 10 m.



Order code:

KAB - XM - M12/5F/G - M12/5M/G - CAN

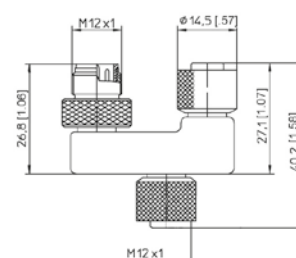
IP69K: KAB - XM - M12/5F/G/69K - M12/5M/G/69K - CAN

Length in m

T-piece for bus cable
M12, 5-pin
CAN bus

Order code:

KAB - TCONN - M12/5M - 2M12/5F - CAN



Terminating
resistance
M12, 5-pin
CAN bus

Order code:

KAB - RTERM - M12/5M/G - CAN

