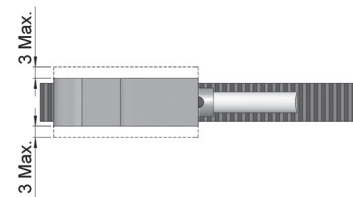
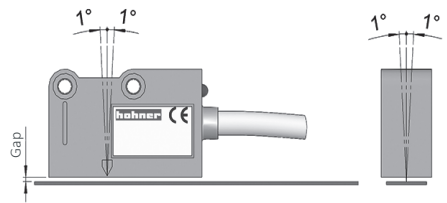
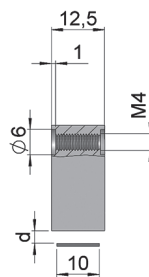
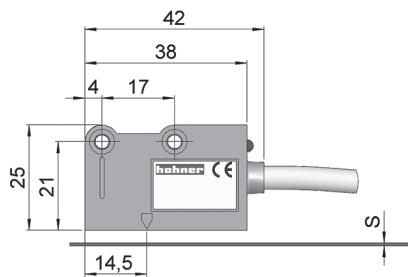
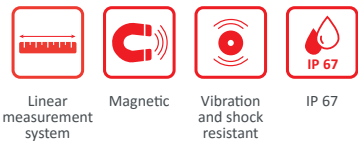




SERIE MSH

LINEAR MEASURING MAGNETIC SENSOR

- Magnetic detection without contact
- Easy assembly
- Resolution 5 μm
- Accuracy $\pm 6 \mu\text{m}$
- Pole pitch 1+1
- Protection class IP67
- Metallic cover
- Connection by cable (other cable length available)



Magnetic band CSH

	CSH	CSH + PS*	CSH + AP*
S (mm)	1.3	1.6	2.1
d (mm)	0.1 \div 0.4	-	-

Drawing MSH sensor dimensions

Sensor alignment tolerances

SENSOR REFERENCE

Reference example: MSH-5528

Serie	Resolution	Power supply	Special customer
MSH -	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Pole pitch 1+1	5.5 μm (*)	528. 5...28 VDC	

(*) Resolution between edges (1 Pulse = 4 edges). Other resolutions available, upon request (0.5, 1, 10 μm).

BAND REFERENCE

Serie

CSH

Band length: mm



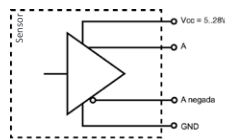
SERIE MSH

LINEAR MEASURING MAGNETIC SENSOR

SENSOR SPECIFICATIONS

Resolution	5 µm
Accuracy	±6 µm
Repeatability	±1 increment
GAP, distance sensor/band (d) see previous table	0,1 to 0,4 mm
Speed	6 m/s (10 µm)
Housing	Metallic
Protection class (EN 60529)	IP67
Operating temperature range	0°C to +50°C
Storage temperature range	-20°C to +80°C
Humidity	100% not condensed
Vibration (EN 60068-2-6)	300 m/s ² (55...2000 Hz)
Shock (EN 60068-2-27)	1000 m/s ² (11ms)
Weight	40g
Connection	2 meter cable

OUTPUT SIGNALS



OUTPUT CIRCUIT	Line Driver
Power supply	5...28 VDC ±5%
Load without charge	Max: 60 mA
Load with charge	140 mA MAX (VDC=5V and Z= 120Ω) 90 mA MAX (VDC=28V and Z= 1,2kΩ)
Frequency	300 kHz
Short circuit protection	Yes
Protection polarity inversion	Yes

Channel A leads 90° electrically channel B

CONNECTION



	Cable
	3x2x0,14+2x0,35 mm ²
GND	Blue
VCC	Red
A	Green
B	White
Ã	Orange
Ã	Sky blue
0 (reference)	Brown
0	Yellow

The cable's bending radius should not be lower than 60 mm.

BAND SPECIFICATIONS

Pole pitch	1+1 mm
Accuracy at 20°C	±30 µm/meter
Width band	10 mm
Thickness band "S" (see previous table)	1,3 mm
Maximum length	50 m
Thermal expansion	10,5 x 10 ⁻⁶ °C ⁻¹ Tref: 20°C ± 0,1°C
Bending radius	≥ 130 mm
Operating temperature range	0°C to +70°C
Storage temperature range	-20°C to +80°C