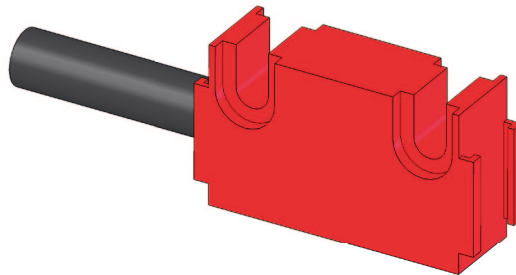


Magnetic sensor MSK5000T



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Features:

- Resolution up to 1 µm
- Repeat accuracy ±10 µm
- Read distance to 2,0 mm
- Suitable magnetic tape/ring MB500, MR500 and MBR500
- Small, compact sensor design

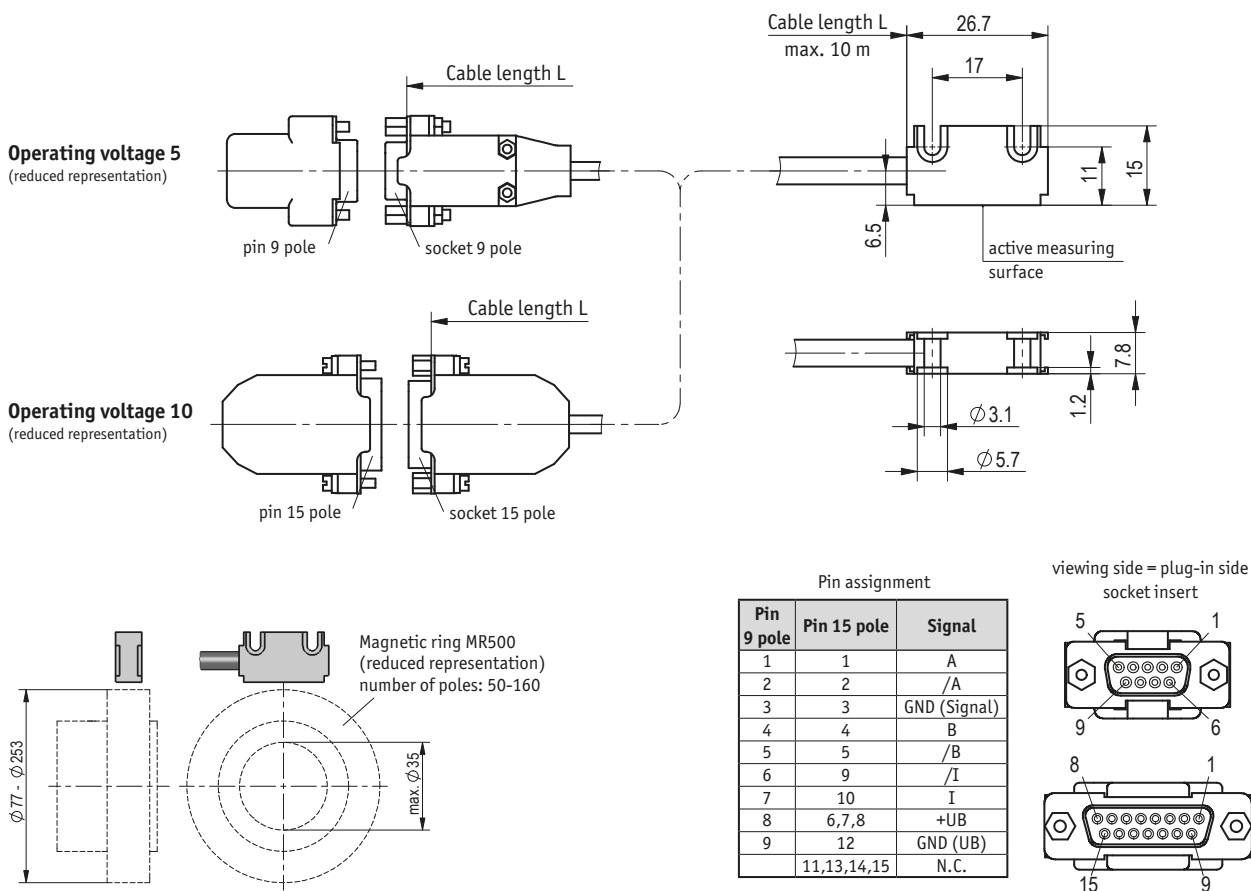
Resolution in mm	Travel speed in m/s									
	0,01	0,03	0,05	0,10	0,20	0,32	0,80	1,60	4,00	
0,001	0,01	0,03	0,05	0,10	0,20	0,32	0,80	1,60	4,00	
0,005	0,06	0,13	0,25	0,50	1,00	1,60	4,00	8,00	20,00	
0,010	0,12	0,25	0,50	1,00	2,00	3,20	8,00	16,00	25,00	
0,025	0,30	0,63	1,25	2,50	5,00	8,00	20,00	25,00	25,00	
0,050	0,61	1,25	2,50	5,00	10,00	16,00	25,00	25,00	25,00	
0,100	1,21	2,50	5,00	10,00	20,00	25,00	25,00	25,00	25,00	
Pulse interval (µs)	66,00	32,00	16,00	8,00	4,00	2,50	1,00	0,50	0,20	
Count. frequ. (kHz)	3,79	7,81	15,63	31,25	62,50	100,00	250,00	500,00	1250,00	

Feature	Order text	Additional information
Operating voltage	5	5 VDC ±5 %
	10	6,5 VDC ... 30 VDC
Cable length L (in m)	...	max. 10 m
Output circuit	LD	Line Driver
	PP	Push-Pull
Resolution linear/radial scale	0,001/1250	0,005/250; 0,010/125; 0,025/50; 0,050/25;
		0,1/12,5
Puls interval µs	1,00	options: 0,2; 0,5; 2,5; 4; 8; 16; 32; 66

Note: The internal translation module can generate fast counting pulses, the lengths of which are limited by the pulse interval. The follower electronics must be adjusted accordingly. Select the pulse interval in advance, if necessary.

Your ordering: - - - - -

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Technical data

Mechanical data:		Additional information
Housing	zinc/aluminium, red paints	
Sensor cable	PUR, drag chain-compatible	6 wire Ø5,1 _{-0,2} mm
Stability	water/oils	

Electrical data:

Power supply	5 VDC ±5 %, 6,5 VDC ... 30 VDC	
Power consumption	< 25 mA @5 VDC, without load	
Output	LD, PP	
Output signals	A; /A; B; /B; I; /I	
Realtime requirements	real-time signal processing	
Interference protection	3	IEC-61000-6-2
Test mark	CE	

Environmental conditions:

Working temperatur	-10 °C ... +70 °C	
Storage temperature	-30 °C ... +80 °C	
Humidity	100 %rF, condensation permitted (sensor head)	
Type of protection	IP67 (sensor head) IP40 (D-Sub socket)	

System data:

Pole length	5 mm	
System accuracy	±0,025 mm	
System accuracy	max. ±10 µm	
Travel speed	depending on resolution and pulse interval	
Sensor/magnetic strip gap	0,1 - 2,0 mm; lateral disalignment ±2 mm	

Accessory:

2x allen screw (ISO 4762-M3x14)	separately enclosed
2x lock washer (3 DIN 7980)	separately enclosed
1x cable clip	separately enclosed
1x spacer teachings	separately enclosed
1x 9 pole or 15 pole plug pin + housing	separately enclosed