

Magnetic Sensor MSK5000 SA_DS



Contactlessly measuring sensing head with integrated translation module and digital signal output. **SA_DS version includes automation-grade, dual-shield sensor cable for special applications.** Combined with the magnetic strip MB500, the sensor establishes an open and robust measuring system with very high resolution and a sensing distance of up to 2.0 mm.



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Features:

- Resolution up to 0.001mm
- Freely programmable parameters (e.g., resolution) via optical interface
- Status LED display
- Real-time signal processing
- Scale MB500 (linear) / MR500 (radial)
- Reference signal fixed or periodic
- Robust metal housing

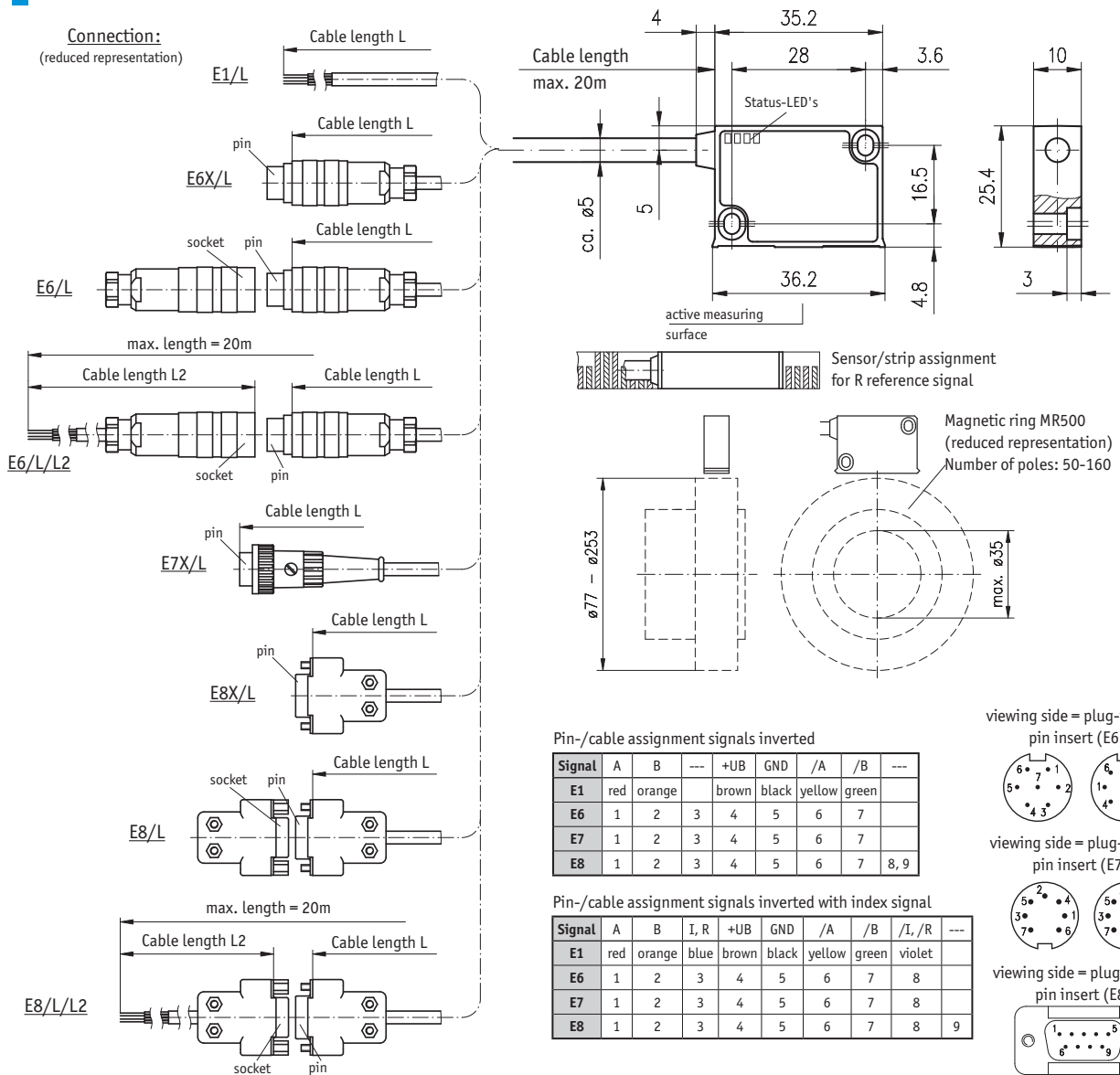
Resolution mm	Travel speed in m/s								
	0.01	0.03	0.05	0.10	0.20	0.32	0.80	1.60	4.00
0.001	0.01	0.03	0.05	0.10	0.20	0.32	0.80	1.60	4.00
0.005	0.06	0.13	0.25	0.50	1.00	1.60	4.00	8.00	20.00
0.010	0.12	0.25	0.50	1.00	2.00	3.20	8.00	16.00	25.00
0.025	0.30	0.63	1.25	2.50	5.00	8.00	20.00	25.00	25.00
0.050	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	10	6.5VDC ... 30VDC
	11	4.75VDC ... 6VDC
Connection	E1	
	E6X	
	E6	
	E7X	
	E8X	
	E8	
Cable length L (in m)	...	max. 20m
Cable length L2 (in m)	...	L + L2 = max. 20m
Output circuit	PP	push pull
	LD	line driver
Reference signal	0	without
	I	periodic index
	R	reference fixed
Resolution linear/radial scale	0.001/1250	
	0.005/250	
	0.010/125	
	0.025/50	
	0.050/25	
	0.1/12.5	
Pulse interval µs	1.00	standard , 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: MSK5000 - A - B - C - D - E - F - G - H - SA_DS

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Technical data

Mechanical data:

Housing	ABS black
Sensor cable	PUR, drag chain-compatible

Electrical data:

Power supply	6.5VDC ... 30VDC 4.75VDC ... 6VDC
Power consumption	<25mA without load
Output signals	A; /A; B; /B; I; /I or R; /R
Realtime requirements	real-time signal processing
Index mark	periodic, fixed
Interference protection class	3
Test mark	CE

Environmental conditions:

Working temperature	-10°C ... +70°C
Storage temperature	-30°C ... +80°C
Humidity	100% rF, condensation permitted
Type of protection	IP67

System data:

Pole length	5mm
Travel speed	depending on resolution and pulse interval
System accuracy	±0,025mm
Repeat accuracy	max. ±10µm
Sensor/magnetic strip gap	0.1 - 2.0mm

Additional information

Special application, automation-grade

reference signal 0 + I
reference signal R