

MSA 350

- Max. measuring length: 3040 mm
- Rigid mounting; large cross-section
- Mounting holes on the extrusion ends
- Reference marks
- Additional mounting support for longer measuring lengths

Model	System resolution [μm]	Accuracy grades [μm/m]	Grating pitch [μm]	Integrated interpolation	Max. velocity [m/s]	
					continuous	momentary
Square-wave signals with integrated subdividing electronics						
MSA 350.24	10	±10	40	times 1	1	2
MSA 350.23	5	±5, ±10	20	times 1	1	2
MSA 350.64	2	±5, ±10	40	times 5	1	2
MSA 350.63	1	±5, ±10	20	times 5	1	1

Other accuracy grades or grating pitches (e. g. Inch) on request.

Standard measuring lengths [mm]:

170, 220, 270, 320, 370, 420, 470, 520, 620, 670, 720, 770, 820, 920, 1040, 1140, 1240, 1340, 1440, 1540, 1640, 1740, 1840, 2040, 2240, 2440, 2640, 2840, 3040

Scale unit:

Glass scale ($\alpha \approx 8.5 \times 10^{-6}/K$)

Location of the reference marks:

- Distance-coded reference marks:
after travelling max. 20 mm the absolute position is available.
- Up to measuring length 920 mm: one reference mark in the middle of measuring length or 35 mm from both ends of measuring length; measuring length 1040 mm and longer: 45 mm from both ends of measuring length.
- Optional: one reference mark at any location; additional reference marks by distances of $n \times 50$ mm.

Required moving force:

- With standard sealing lips: < 3 N
- With low drag sealing lips: < 0.2 N

Environmental sealing EN 60529:

With standard sealing lips: IP 53

RoHS-conformity:

The linear encoders MSA 350 comply with the guideline of the RoHS-directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Permissible temperature:

-20 °C to +70 °C (storage)
0 °C to +50 °C (operation)

Weight (approx.):

3 kg/m (scale spar) + 0.4 kg (reading head with 3 m cable)

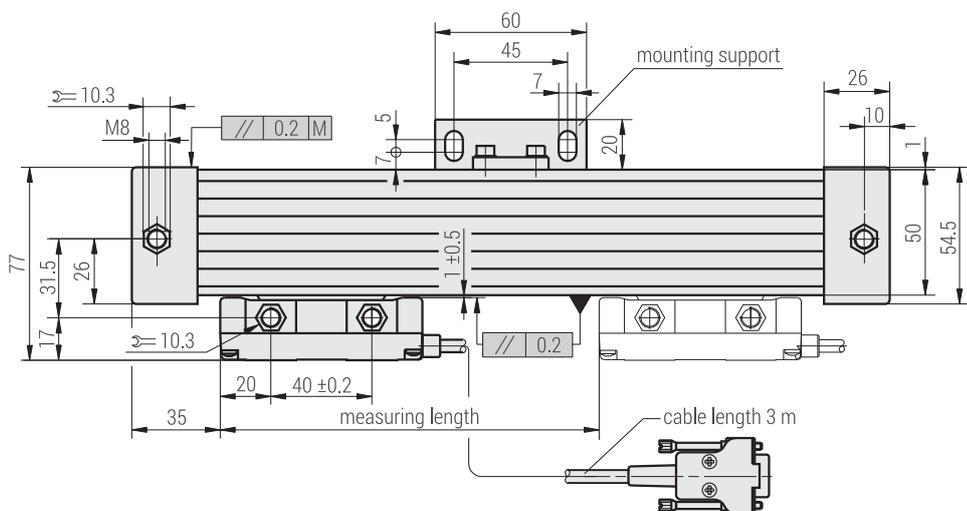
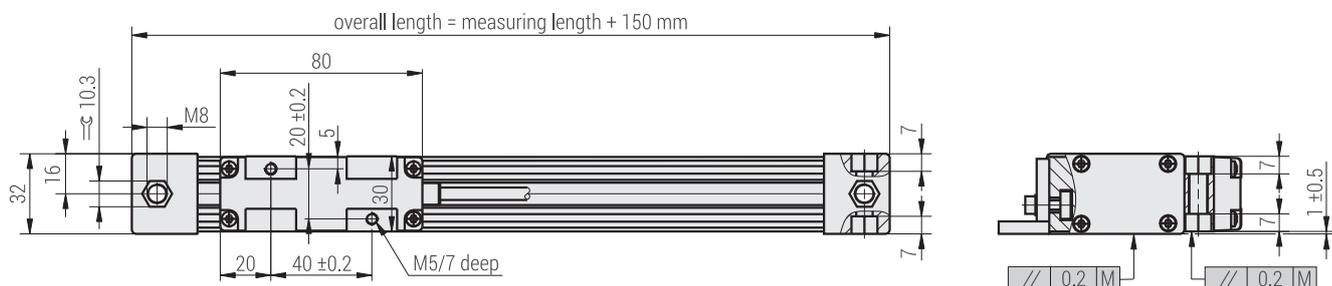
Signal output (optional)

- Square-wave signals (single ended) with integrated subdividing electronics.
- Square-wave signals (differential) via line driver RS 422 Standard with integrated subdividing electronics.

Power supply:

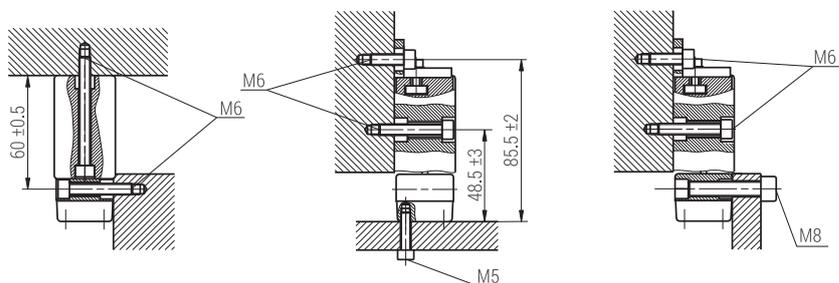
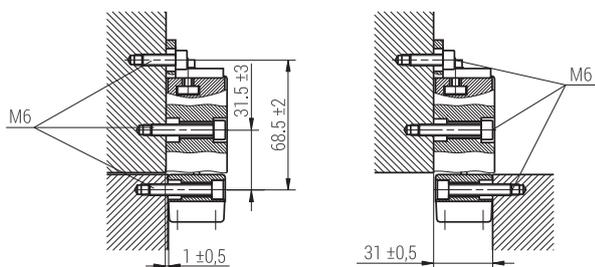
+5 V ±5 %, < 150 mA (without interpolation, unloaded)
< 200 mA (with interpolation, unloaded)

DIMENSIONS - TOLERANCES - MOUNTING POSSIBILITIES



M = machine guideway

quantity and position of the mounting support per measuring length



170 - 520 mm

620 - 1020 mm 1x

1140 - 2040 mm 2x
2240 - 3040 mm 3x