

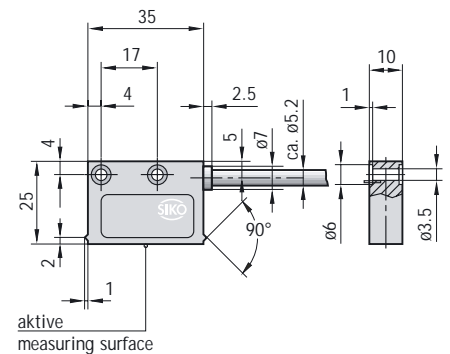
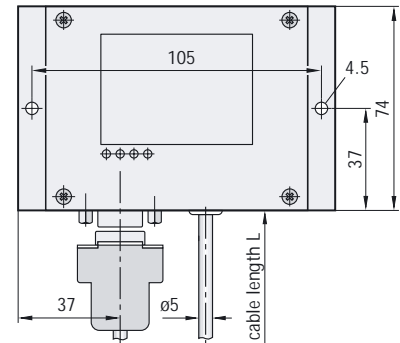
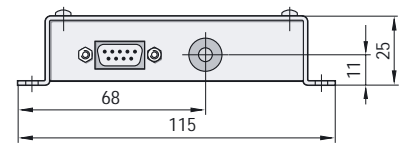
Evaluation electronics ASA510 – absolute

High-resolution, absolute evaluation electronics with permanently attached magnetic sensor. The ASA510 provides digital position values in SSI format with a resolution of up to 10 μm as well as system accuracy of up to 50 μm . The measuring length is unlimited.



Features:

- compact, absolute measuring unit with permanently attached sensor
- resolutions up to 10 μm (digital)
- SSI interface
- MB500 magnetic band as physical measure
- up to 50 μm system accuracy
- sensor / band distance max. 2.0 mm



Feature	Technical data	Additional information
Operating voltage	24 V DC $\pm 20\%$	standard
Sensor type	type A, plastic	red colour, customer-specific versions available
Cable length	indication in meter, in steps of 1.0 m	2.0 m standard (available up to 6.0 m)
Cable sheath	PUR, oil-resistant	standard
Output circuit	SSI	standard (according to RS422 A), max. 125 KHz
	RS485	ASCII protocol
Resolution	10 μm , internally switchable	
Power consumption	< 100 mA	polarity protection
Type of connection	D-SUB, 9-pole	
Housing	steel sheet	electro-galvanised
Interference protection class	3	according to IEC 801
Travel speed	max. 5 m/s (of the magnetic sensor)	
Distance band/sensor	max. 2.0 mm	over total measuring length
System accuracy	$\pm(0.05 + 0.01 \times L)$ mm [L in m]	at $T_U = 20\text{ }^\circ\text{C}$; [L = length per started meter]
Repeat accuracy	± 1 digit	
Temperature range	working temperature 0 ... +60 $^\circ\text{C}$	Storage temperature -20 ... +70 $^\circ\text{C}$
Air humidity	max. 95 % rF	condensation not permissible
Type of protection	IP 40 according to DIN VDE 0470	CE test mark
Weight	approx. 400 g	total weight