

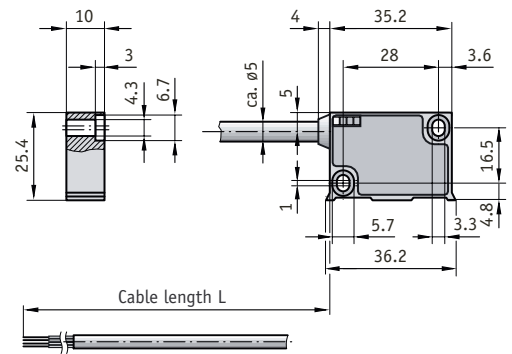
Linear Encoder LE100/1

Contactlessly measuring scanning unit with integrated analog signal output (sine 1 V_{ss}). Together with the magnetic scale MB100 and a follower interpolation electronics unit, the LE100/1 forms an open linear measuring system.

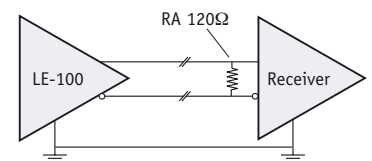


Features:

- easy mounting
- LED status display
- signal period 1000 µm (analog)
- scale MB100
- reference signal (option)
- insensitive to dust, shavings, humidity



Sensor/ Strip assignment for R reference signal



Feature	Ordering data	Technical data	Additional information
Operating voltage	4	24 V DC ±20%	standard, with polarity protection
	5	5 V DC ±5%	
Connection	E1/1.0	flying leads/ 1 m cable	standard, max. 10 m
	E6/...	circular plug	
Reference signal	0	without	standard
	I	analog, period. index signal every 1 mm	RS422 (Line Driver)
	RB	fix reference signal analog, on tape side	see signals illustration in the appendix
Power consumption		<25mA @24VDC; <50mA @5VDC	with polarity protection at operating voltage 24 V DC
Output signals		Sin, Cos, /Sin, /Cos, I, /I, or R, /R	
Signal amplitude		1 V _{ss} ±10 % @0 - 70 °C	with RA = 120 Ohm up to 1 kOhm
Output impedance		0 Ohm (Rload > 75 Ohm)	short-circuit-resistant
Sine/ Cosine offset		2.5 V ±0.5 %	
Phase position sine/cosine		90° ±1°; <±3° (20kHz)	
Phase position of reference signal		Sin 45°; Cos 135°	
Pulse width of reference signal		±75° (±5°)	
Real time requirements		real-time signal processing	
Signal period		1000 µm	
Travel speed		max. 20 m/s	with RB: 5 m/s
System accuracy		max. 1 % related to dividing period	
Harmonic distortion		< 1%	
Gap strip/ sensor		0.1 - 0.4 mm, reference signal RB < 0.2 mm	over whole measuring distance, without cover strip
Parallel sensor/ strip offset		±0.5 mm	angle offset ±3° (±1° with RB)
Temperature range		working temperature: -10 ... +70 °C	storage temperature: -30 ... +80 °C
Interference protection class		3, according to IEC 801	Humidity max. 95%rF
Protection class		IP 67, according to DIN VDE 0470	test mark CE
Vibration resistance		<200m/s ² (50Hz ... 2000Hz)	
Shock resistance		<300m/s ² (11ms)	
Housing		diecast	lateral cover aluminium
Cable		PUR, dragchain capable	

Your order:

LE100/1 - - -