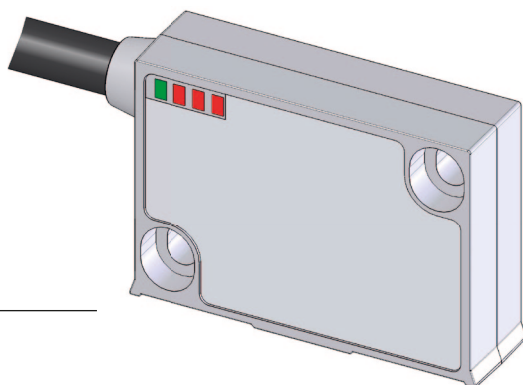


# Linear Encoder LE200



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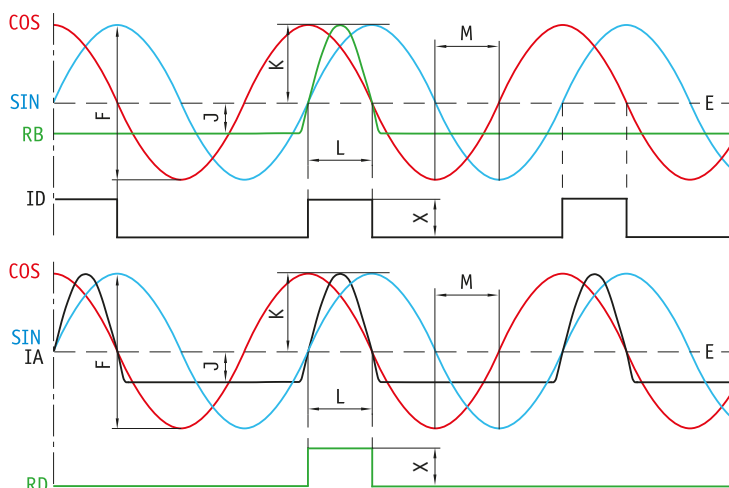
**eMail**  
 info@siko-global.com  
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**Features:**

- robust metal housing
- LED status display
- easy mounting
- signal period 2000 μm
- scale MB200/1
- insensitive to dust, shavings, humidity

**Signals:**

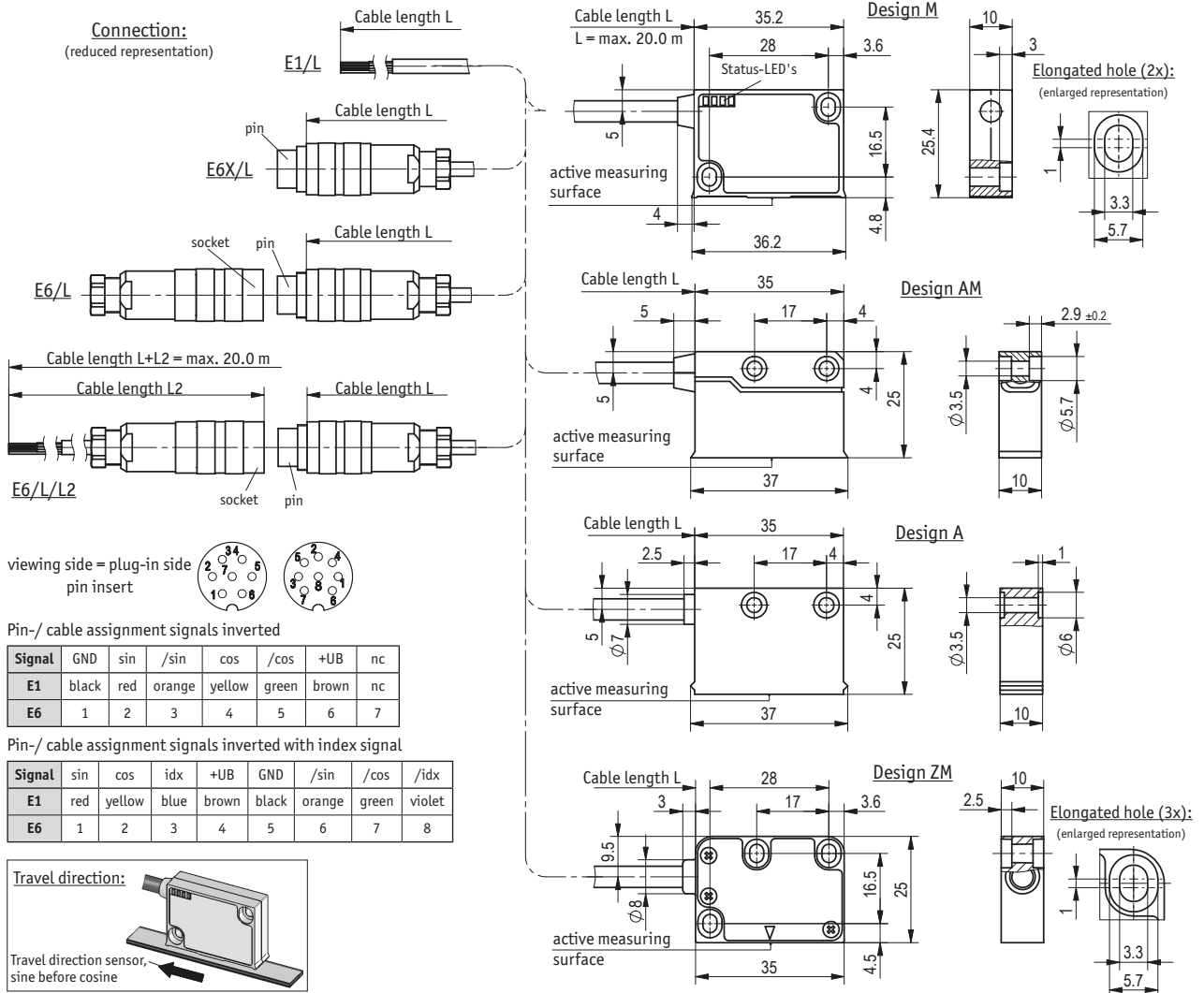
- E: reference voltage 2.5 V ±100 mV
- F: 1 Vpp ±10 %
- J: ≥0.2 V
- L: 100° ±20°
- M: 90° ±1.0° / <±3° (20 m/s)
- X: 1 Vpp
- K: ≥0.3 V



Feature	Order text	Additional information	
Operating voltage	10	10.5 ... 30 V DC	
	5	5 V DC ±5 %	
Design	M	Form A, metal	
	AM		
	A		
	ZM		
Connection	E1		
	E6X		
	E6		
Cable length L (in m)	...	max. 20.0 m	
Cable length L2 (in m)	...	L + L2 = max. 20.0 m	
Reference signal	0	without	
	IA	periodic index (analog)	all 2 mm index signal
	ID	periodic index (digital)	all 2 mm index signal
	RB	fixed, tape side (analog)	
	RD	fixed, tape side (digital)	

Your ordering:  -  -  -  -  -  -

# Linear Encoder LE200



## Technical data

Mechanical data	
Housing	zinc/aluminum die-cast, nickel-plated, M, AM design green plastic, A design zinc die-cast, ZM design
Sensor/band reading distance	0.1 ... 0.8 mm O, IA, IB reference signal 0.1 ... 0.5 mm RB, RD reference signal
Cable sheath	PUR dragchain-compatible 6, 8 wire Ø5 <sub>-0.4</sub> mm
Cable bending radius	5x cable diameter, statical 7.5x cable diameter, dynamical
Service life of cable	>5 million cycles under the following test conditions: Travel range 4.5 m Travel speed 3 m/s Acceleration 5 m/s <sup>2</sup> Ambient temperature 20 °C ± 5 °C
Weight	0.03 kg (without cable)
Electrical data	
Operating voltage	10.5 ... 30 V DC 5 V DC ± 5 %
Current consumption	<25 mA, at 24 V DC <50 mA, at 5 V DC
Output signals	sin, /sin, cos, /cos, index, /index
Output voltage	1 V <sub>pp</sub> ± 10 %, at 0 ... 70 °C
Output current	≤ 60 mA peak, 5 s, per core
Output impedance	0 Ω (R <sub>load</sub> > 75 Ω), short-circuit proof
Signal period	2000 μm

## Technical data

Offset voltage	2.5 V, ± 100 mV, sine/cosine mean to GND (10.5 ... 30 V DC) UB/2 ± 100 mV, sine/cosine mean to GND (5 V DC)
Phasing	90° ± 1°, ± 3° (20 m/s), sin/cos 45°, sin (reference signal) 135°, cos (reference signal)
Type of connection	open cable end plug connector, 7/8 pole
System data	
Linearity deviation	± 5 μm, at T <sub>0</sub> = 20 °C
Repeat accuracy	4 μm unidirectional
Travel speed	≤ 25 m/s ≤ 5 m/s RB, RD reference signal
Ambient conditions	
Ambient temperature	-10 ... 70 °C
Storage temperature	-30 ... 80 °C
Relative humidity	100 % condensation admissible
EMC	EN 61000-6-2, interference resistance/immission EN 61000-6-4, emitted interference/emission
Protection category	IP67, EN 60529
Shock resistance	500 m/s <sup>2</sup> , 11 ms, EN 60068-2-27
Vibration resistance	200 m/s <sup>2</sup> , 50 Hz ... 2 kHz, EN 60068-2-6
Accessory	
	2x hexagon socket head cap screw, (ISO 4762-M3x14) separately enclosed 2x lock washer, (3 DIN 7980) separately enclosed