

SGM-LK10

Slim rod level type, cable exit

It is suitable for scenarios such as hydraulic position measurement in mining machinery.

Features

Secure and Reliable / oil- and dirt-resistant

Easy to Diagnose / LED real-time status display

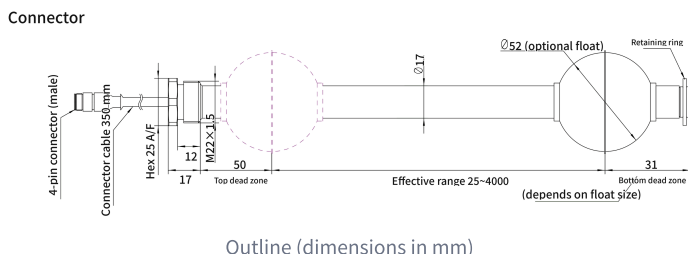
Non-Contact Measurement / never wears out

Modular Design / easy replacement

Absolute Position Output / no homing required

Low-Power Design / reduces system power consumption

High-Resolution 16-Bit D/A Analog Output



Outline (dimensions in mm)

Specifications

Product parameters - output types	
Analog output	0-10VDC / 0-5VDC / 4-20mA / 0-20mA
Digital output	RS485 (modbus RTU)
Performance	
Measuring range	25-4000 mm
Output signal	0-20mA(max/min load 0/500Ω) 4-20mA(max/min load 0/500Ω) 0-10V(min. load >5KΩ) RS485(MODBUS RTU)
Resolution	16-bit DA
Repeatability	±0.005mm
Update time	depending on range
Operating conditions	
Magnet speed	any
Operating temperature	-40~+85°C
Storage temperature	-55~+85°C
Humidity	90% humidity, no frost forming.
Temperature coefficient	<30ppm/°C
Protection class	IP68

Orderable range as listed; longer ranges and special temperature or pressure versions on request.

Electrical connection

Analog connector pinout (4-pin)

1	+12V power supply
2	Power - (GND)
3	Analog output +
4	Analog output -

RS485 connector pinout (4-pin)

1	+12V power supply
2	Power - (GND)
3	RS485-A
4	RS485-B

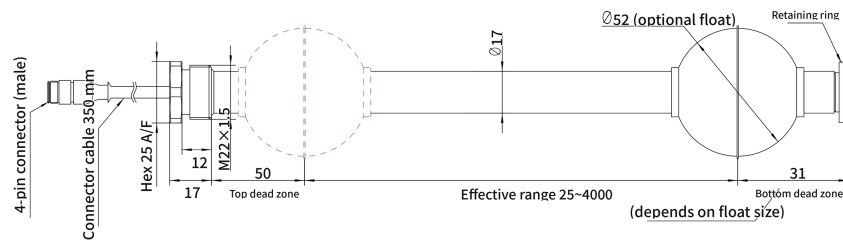
RS485 cable colours

red	Power
black	Ground
yellow	Signal A
green	Signal B

Mounting	
Mounting orientation	any
Mounting	M18×1.5 or M22×1.5 (confirmed with order)
Position magnet	Ring magnet or float
Electrical	
Electrical connection	M12*1 waterproof connector or direct cable exit
Supply voltage	24VDC (±20%)
Current consumption	varies with range
Reverse-polarity protection	Maximum -30VDC
Over-voltage protection	Maximum 36VDC
Insulation strength	500VDC
Materials	
Sensor head	304 stainless steel
Protective tube	304 stainless steel
Mounting flange	304 stainless steel

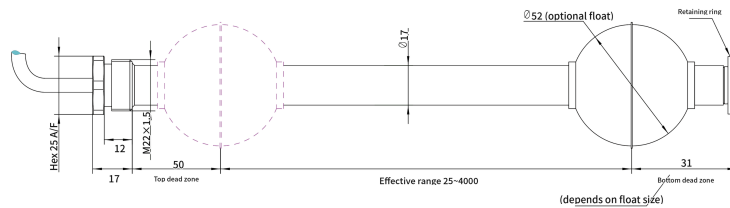
Dimensions (mm)

Connector



Connector version dimensions

Direct cable



Direct cable version dimensions

Range figures in drawings are illustrative; the orderable range is given in the specifications.

Ordering code

SGM-LK10-**<mounting>**-**<range>**-**<output>**-**<connection>**[-options]

Mounting			
18	M18×1.5	V1R	0–10 V reversed (10–0 V), zero at head
XX	Custom thread	V2F	0–5 V, zero at rod end
		V2R	0–5 V reversed (5–0 V), zero at head
Range		R4	RS485 (Modbus RTU)
00025–04000	5 digits in mm, 5 mm steps	XX	Customer-specified output
Output		Connection	
I1F	4–20 mA, zero at rod end	K12	M12 connector
I1R	4–20 mA reversed (20–4 mA), zero at head	C02 ... C99	Direct cable, number = length in m (C02 = 2 m)
I2F	0–20 mA, zero at rod end	...X	Suffix X: customer-specified cable
I2R	0–20 mA reversed (20–0 mA), zero at head	Options	
V1F	0–10 V, zero at rod end	(none)	Series standard dead zones
		Z9	Customer-specified dead zones

Outputs or options listed in the specifications but not in the ordering code are available on request.

Ordering examples

SGM-LK10-18-00800-I1F-C03 800 mm, 4–20 mA, 3 m cable

Specifications are subject to change; final values are confirmed with the order.