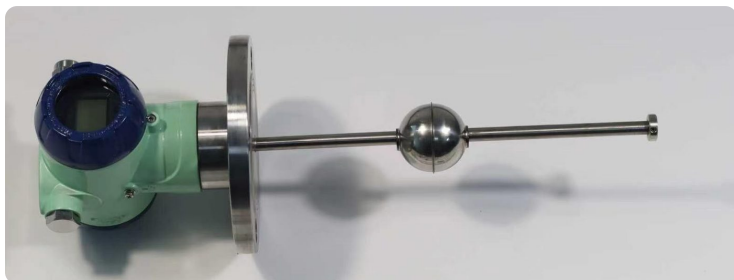


SE-LX20

Flameproof level transmitter with display, rigid rod insertion



Flange-mounted rigid rod for direct insertion; flameproof housing with local display, for level measurement on automated equipment in hazardous areas such as petroleum and chemical plants, ranges up to 8 m. Where headroom above the tank is limited, choose the SE-LX30 flexible-cable version.

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

Repeatability is better than $\pm 0.001\%$ of the full scale

Specifications

Product parameters - output types	
Analog output	2-wire 4-20mA+HART (on request) / 4-wire (3-wire) 4-20mA/0-10V
Digital output	RS485(MODBUS-RTU)
Performance	
Measuring range	200–8000 mm
Output signal	4-20mA(max/min load 0/500Ω) 0-10V(min. load >5KΩ) RS485(MODBUS RTU)
Resolution	1mm、0.1mm
Non-linearity	$\pm 1\text{mm}$
Repeatability	$\pm 1\text{mm}$ 、 $\pm 0.1\text{mm}$
Update time	adjustable via damping time setting
Operating conditions	
Magnet speed	any
Measuring rod temperature	-40~+85°C, -40~+250°C (high-temperature version)
Electronic head temperature	-30~+85°C
Storage temperature	-55~+85°C
Humidity	90% humidity, no frost forming.

Temperature coefficient	<30ppm/°C
Protection class	IP67
Mounting	
Mounting orientation	Flange mounting, rigid rod insertion
Mounting	DN25 / DN50 / DN100 flange or custom
Position magnet	single float, double float
Electrical	
Electrical connection	explosion-proof terminal housing, 3-core terminal / 4-core terminal
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	aluminium alloy
Protective tube	304 stainless steel
Mounting flange	304 stainless steel

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

Electrical connection

2-wire 4–20 mA wiring

- 24V power +
- 24V power - (GND)
- Not connected (NC)

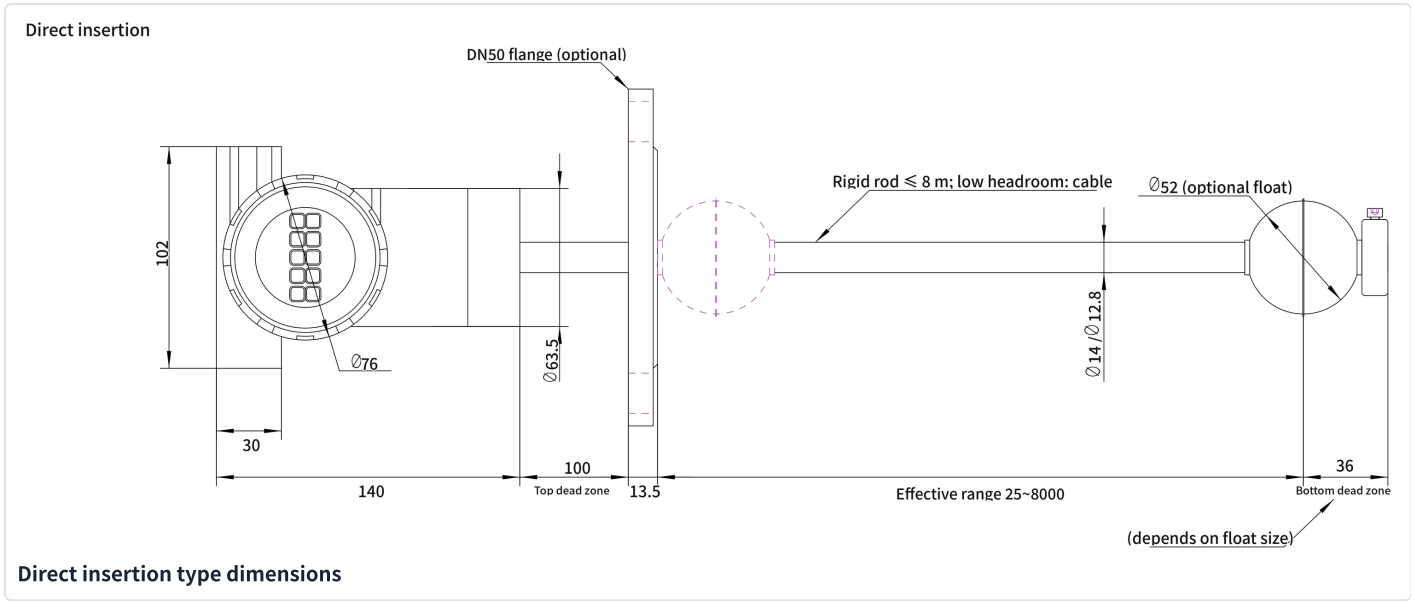
4-wire analog / RS485 wiring

- 24V power +
- 24V power - (GND)
- Analog signal + / 485A
- Analog signal - / 485B

Interface-level wiring

- Channel 1 power +
- Channel 1 power -
- Channel 2 power +
- Channel 2 power -

Dimensions (mm)



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

Ordering code

SE-LX20-<flange>-<range>-<output>-<floats>-<W2/W4>

Flange			
F25 / F50 / F100	Flange DN25 / DN50 / DN100	V1R	0-10 V reversed (10-0 V), zero at head
FX	Custom flange	V2F	0-5 V, zero at rod end
Range		V2R	0-5 V reversed (5-0 V), zero at head
00200-08000	5 digits in mm, 5 mm steps	R4	RS485 (Modbus RTU)
Output		Floats	
I1F	4-20 mA, zero at rod end	1Fdd	1 float, dd = medium density × 10 (0.8 → 08)
I1R	4-20 mA reversed (20-4 mA), zero at head	2FddFdd	2 floats (interface), both densities
I1D	Two 4-20 mA outputs (two floats)	Options	
V1F	0-10 V, zero at rod end	W2	2-wire
		W4	4-wire

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

Ordering examples

SE-LX20-F50-03000-I1D-2F08F11-W2 Rigid rod, DN50, 3000 mm, two floats for interface (density 0.8 / 1.1)

The SE-LX series is flameproof; Ex certification is applied for under the SE-LX series name, certificate details on request.

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