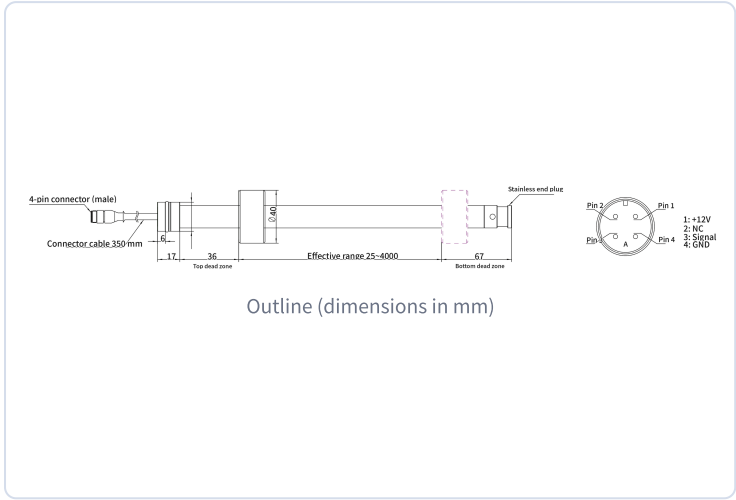


SE-PR30 Slim integrated rod type, intrinsically safe



Pressure-resistant outer tube: high protection rating, flameproof and intrinsically safe, suitable for explosion-proof occasions. Intrinsic safety parameters ui: 12.5V, ii: 15mA, ci: 0uF, li: 0mH; outputs 0-5VDC / 0-10VDC / 4-20mA and RS485.

Features

- Secure and Reliable
- Easy to Diagnose
- Non-Contact Measurement
- Modular Design
- Absolute Position Output
- Low-Power Design
- High-Resolution 16-Bit D/A Analog Output

Specifications

Output type	
Analog output	0-5VDC / 0-10VDC / 4-20mA
Digital output	RS485
Performance	
Intrinsic safety parameters	Ui: 12.5V li: 15mA Ci: 0uF Li: 0mH
Measuring range	25-4000 mm
Output signal	4-20mA (max load 0~500Ω), 0.5-4.5V (min load >5KΩ)
Resolution	16-bit DA
Non-linearity	<±0.01%FS
Repeatability	<±0.01mm
Update time	<5ms (depending on range)
Operating conditions	
Magnet speed	any
Operating temperature	-40~+85°C
Storage temperature	-55~+85°C
Humidity	90% humidity, no frost forming.

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

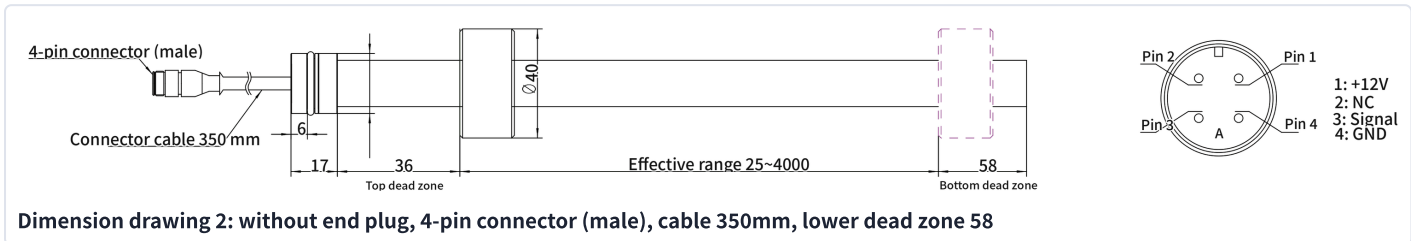
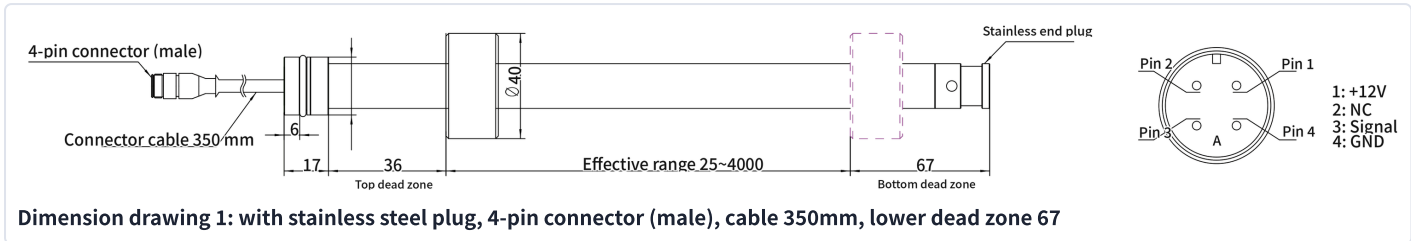
Electrical connection

Analog connector pinout (4-pin)

1	Power+
2	Not connected
3	Signal output +
4	Power - (GND)

Temperature coefficient	<30ppm/°C
Protection class	IP67 IP68
Electrical	
Electrical connection	Pigtail with M12 plug or direct cable
Supply voltage	12VDC (±20%)/24VDC
Current consumption	<20mA (varies with measurement range)
Reverse-polarity protection	Maximum -30VDC
Over-voltage protection	Maximum 36VDC
Insulation strength	500VDC
Mounting	
Mounting orientation	any
Mounting	Insertion
Position magnet	Ring magnet ring
Materials	
Sensor head	17mm diameter 304 stainless steel

Dimensions (mm)



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

Ordering code

SE-PR30-<ring>-<range>-<output>-<connection>[-options]		
Magnet ring		
R40	Magnet ring OD 40 mm	
R28	Magnet ring OD 28 mm	
RX	Specified magnet ring	
Range		
00025–04000	5 digits in mm, 5 mm steps	
Output		
V2F	0–5 V, zero at rod end	
V2R	0–5 V reversed (5–0 V), zero at head	
Connection		
V3F	0.5–4.5 V, zero at rod end	
V3R	0.5–4.5 V reversed (4.5–0.5 V)	
R4	RS485 (Modbus RTU)	
XX	Customer-specified (e.g. 4–20 mA, 0–10 V)	
Options		
(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

SE-PR30-R40-00900-V3F-L12 Ring OD40, 900 mm, 0.5-4.5 V, M12 pigtail

SE-PR30 is an intrinsically safe version (Ui 12.5 V, Ii 15 mA, Ci 0 µF, Li 0 mH); Ex certification is applied for under the SE series name, certificate details on request.

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