

NEW

SL-A SERIES

ALL-IN-ONE HOUSING DRAW-WIRE SENSORS

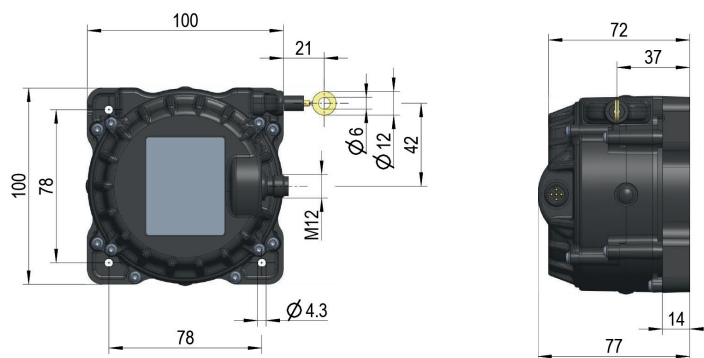
The SL-A Series represents the next stage in FSG's draw-wire sensor technology.

It is based on FSG's newly defined All-in-One Housing concept, in which the draw-wire mechanics, magnetic sensing and electronics are fully integrated into a single, precisely manufactured housing.

This design principle is at the core of the series:

Through the highly accurate alignment of all components, the system achieves noticeably improved measurement accuracy, repeatability, and signal quality—regardless of whether the measuring range is 2 m, 4 m, or 8 m.

- ✓ **Compact**
- ✓ **Precise**
- ✓ **Cost-optimized**
- ✓ **Flexibly integrable**



TECHNICAL DATA:

Housing: Plastic, black (PBT)
Wire rope: Ø 0.8 mm (1.4404, PA-coated)
Protection class: IP65 (electronics/spring), IP42* (wire chamber)
Weight: approx. 580 g
Supply voltage: 8–30 V DC
Current consumption: <100 mA
Connection: M12 A-coded or LiYY cable 3×0.34 mm²

*Individually releasable drain holes allow targeted moisture discharge (→ IP42).

SIGNAL OUTPUTS:

- Analog (–20 mA, 0.5 to 4.5 V)
 - Digital (CANopen, J1939)
- Optional Features:**
- Redundancy (digital only)
 - 1-/2-axis inclinometer (digital only)

TECHNICAL ACCESSORIES:

- Deflection pulleys
- Mounting brackets
- Adapter plates
- OEM-specific integration kits

STANDARD SERIES

SL-A-S

Accuracy: $\leq \pm 0.5\%$

- Robust, cost-efficient base version
- Designed for high-volume applications
- Available with analog or digital outputs



SL-A8-S

Measuring range up to: **8 m**
 Spring force: **2.5–6 N**
 Accuracy: $\leq \pm 0.5\%$

PRECISION SERIES

SL-A-P

Accuracy: from $\leq \pm 0.15\%$

- Precision-oriented draw-wire mechanics
- Optimized wire outlet for each measuring range
- Optional: integrated inclinometer
- Optional: digital redundant signal processing
- For demanding OEM and automation applications



SL-A2-P

Measuring range up to: **2 m**
 Spring force: **5–6 N**
 Accuracy: $\leq \pm 0.15\%$



SL-A4-P

Measuring range up to: **4 m**
 Spring force: **4–6 N**
 Accuracy: $\leq \pm 0.2\%$



SL-A8-P

Measuring range up to: **8 m**
 Spring force: **2.5–6 N**
 Accuracy: $\leq \pm 0.25\%$



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