

Linear Displacement Stroke Sensor (LDS-42 Series)

Model: LDS-42 Series (42mm Stroke)

Product Overview

Compact magnetic contactless linear stroke position sensor for clutch actuators, brake pushrods, hydraulic cylinder pistons, and transmission forks.

Key Features

- 42mm linear travel measurement with contactless magnetic slider
- No wear on electrical resistance elements for extended service life
- Linear analog voltage output directly proportional to displacement
- Internal spring-return or free floating magnetic linkage options
- Rugged IP67 aluminum barrel housing

Typical Applications

- Automotive & Commercial Vehicles
- Industrial Machinery & Automation
- Electric Vehicles (EV & FCEV)
- Safety Interlocks & Control Systems

Technical Specifications

Parameter	Specification / Technical Value
Stroke Length	42 mm (Custom strokes 10mm to 100mm)
Supply Voltage	5.0V $\pm$ 0.25V DC
Output Signal	0.5V to 4.5V DC
Linearity	$\pm$ 1.0% FS
Operating Temp	-40°C to +105°C
Protection Rating	IP67