

# Magnetostrictive Level Sensor

**SODRON**

## Product Performance Parameters

Model	SML-3Y1A31-XXX-A
Measurement Range	25-5000mm (Customizable)
Measurement Medium	Acidic Liquid, Alkaline Liquid
Medium Density	$\geq 1000\text{kg/m}^3$
Power Supply Voltage	+24VDC $\pm 20\%$
Operating Temperature	-20~80°C
Output Signal	4-20 mA
Resolution	16-bit D/A
Non-linearity	$\pm 0.05\%$ F.S. (Min $\pm 150\ \mu\text{m}$ )
Repeatability	$\pm 0.05\%$ F.S. (Min $\pm 20\ \mu\text{m}$ )
Insulation Resistance	500V (Between Signal Ground and Housing)
Temperature/Dew Point	90% Humidity, No Condensation
Pressure	$\leq 0.2\text{MPa}$
Wetted Material	PFA
Electronics Housing	PP
Float Specification	$\phi 36.5 \times H48 \times d14$
Guide Rod Specification	$\phi 12.7$
Total Guide Rod Length	L (Measurement Range 25-5000mm + Blind Zone 88mm) (Customizable)
Lower Blind Zone	Approx. 34 . 5mm
Upper Blind Zone	Approx. 53 . 5mm
Cable Outlet Type	M12 (A-coding) Aviation Connector, 5-pin x1
Protection Class	IP68G Corrosion Resistant
Mounting Method	Vertical Mounting