

ISA 2320 – Incremental optical scale of small overall dimensions

- Reduced size, to allow installation on small machine-tools or for applications with limited installation space.
- Possibility of registration which simplifies alignment and makes use on rough surfaces easy (retrofitting and machines for which application was not foreseen).
- Resolutions up to 0.5 μm . Accuracy $\pm 3 \mu\text{m}$ or $\pm 10 \mu\text{m}$.
- Linear thermal expansion coefficient $\lambda = 10.6 \times 10^{-6} \text{ }^\circ\text{C}^{-1}$ suitable to the application.
- Reference indexes in required positions.
- Protected against inversion of power supply polarity and short circuit on output ports.

ISA 10

Resolution 100 μm

Resolution	100 μm
Grating pitch	400 μm
Accuracy	$\pm 10 \mu\text{m}$
Max. traversing speed	120 m/min
Reference indexes	in required positions
Output	NPN / LINE DRIVER / PUSH-PULL
Protection class	IP 54 standard - IP 64 pressurized

ISA 100

Resolution 10 μm

Resolution	10 μm
Grating pitch	40 μm
Accuracy	$\pm 5 \mu\text{m}$
Max. traversing speed	80 m/min
Reference indexes	in required positions
Output	NPN / LINE DRIVER / PUSH-PULL
Protection class	IP 54 standard - IP 64 pressurized

ISA 5

Resolution 5 μm

Resolution	5 μm
Grating pitch	20 μm
Accuracy	$\pm 3 \mu\text{m}$
Max. traversing speed	60 m/min
Reference indexes	in required positions
Output	NPN / LINE DRIVER / PUSH-PULL
Protection class	IP 54 standard - IP 64 pressurized

ISA W1

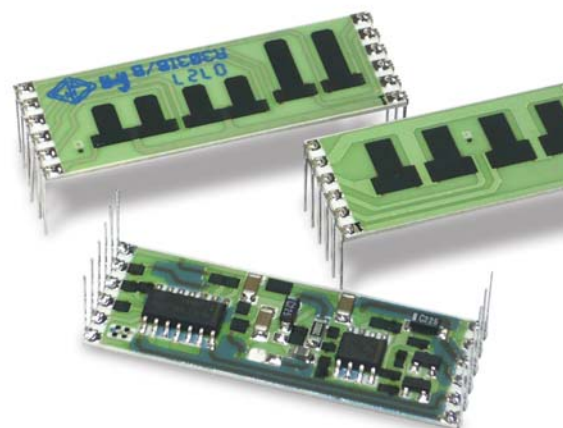
Resolution 1 μm

Resolution	1 μm
Grating pitch	40 μm
Accuracy	$\pm 3 \mu\text{m}$
Max. traversing speed	25 m/min
Reference indexes	in required positions
Output	NPN / LINE DRIVER / PUSH-PULL
Protection class	IP 54 standard - IP 64 pressurized

ISA W05

Resolution 0.5 μm

Resolution	0.5 μm
Grating pitch	20 μm
Accuracy	$\pm 3 \mu\text{m}$
Max. traversing speed	12 m/min
Reference indexes	in required positions
Output	NPN / LINE DRIVER / PUSH-PULL
Protection class	IP 54 standard - IP 64 pressurized



Hybrid ceramic circuit calibrated by laser for generation of signals. Any vibration or thermal variation does not affect the circuit stability.