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 μ m. Accuracy ± 3 μ m or ± 10 μ m.
- Linear thermal expansion coefficient $\lambda = 10.6 \times 10^{-6} \circ C^{-1}$ suitable to the application.
- Reference indexes in required positions.

Optical scales

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	± 10 μm
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	± 5 μm
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	± 3 μm
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

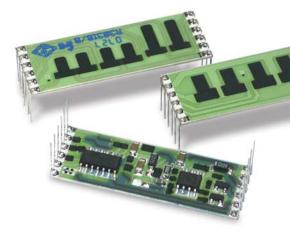
ISAW1

Resolution 1 µm

Resolution	1 µm
Grating pitch	40 µm
Accuracy	± 3 μm
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	± 3 μm
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.

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