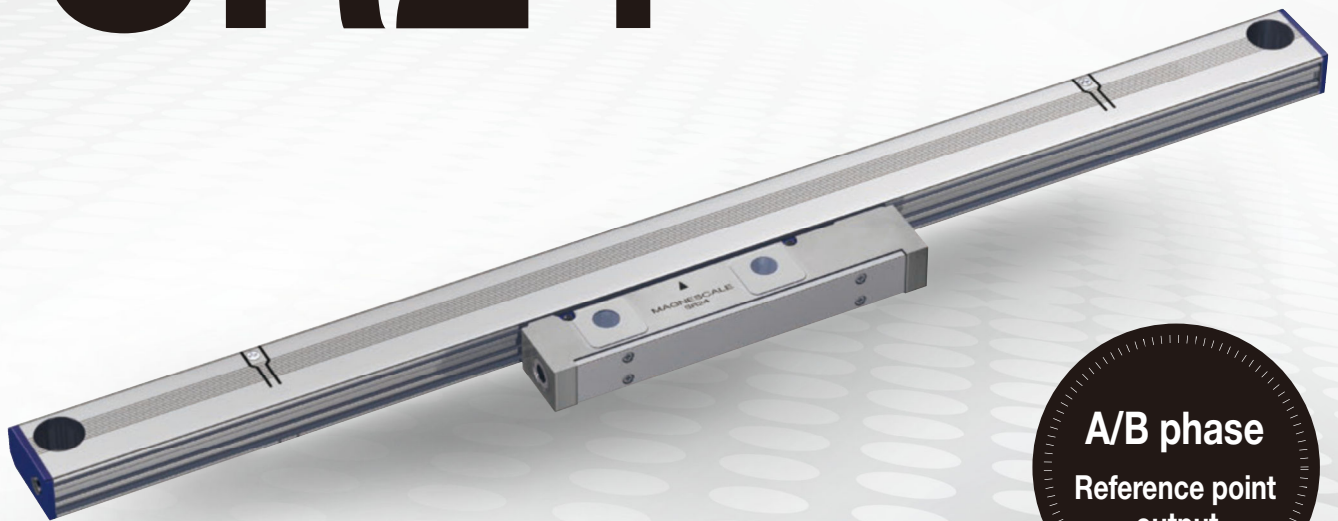


Magnescale

SPEED X PRECISION

Incremental Magnescale
Slim type

SR24



A/B phase
Reference point
output

**Slim profile allows
installation in tight areas.
Heavy duty low-profile design**

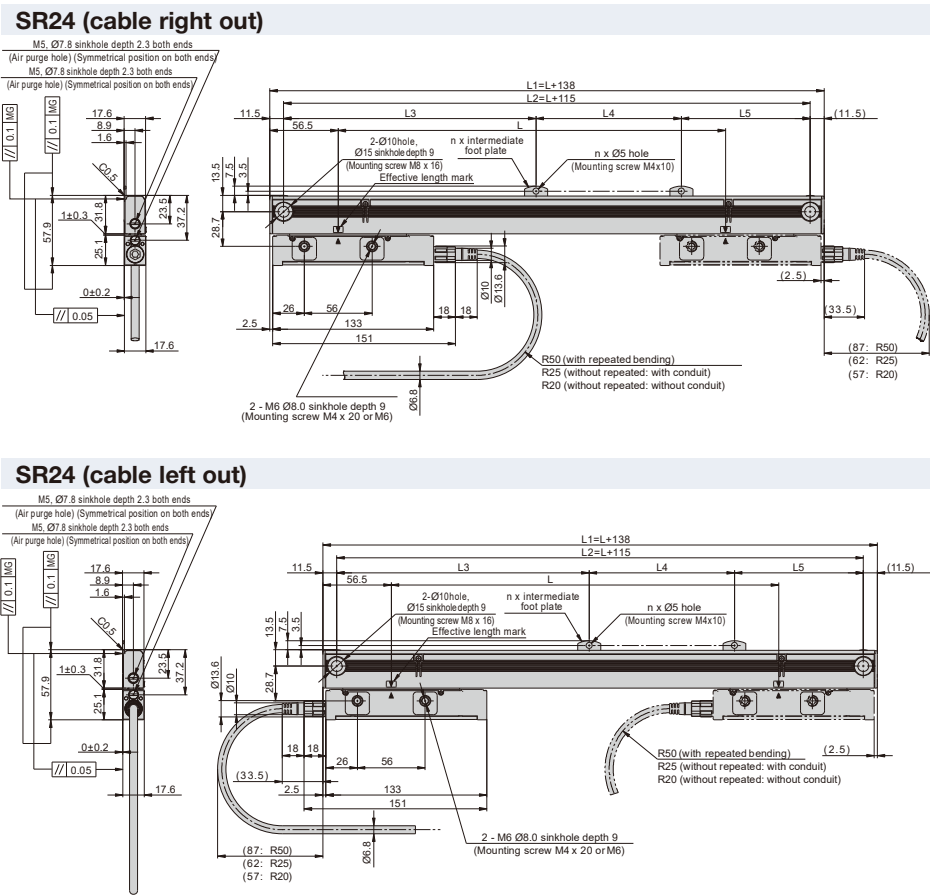
**Magnetic detection technology
and shielded construction
allows the usage in harshest
environments such as oil, dirt
and condensation.**

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Specifications

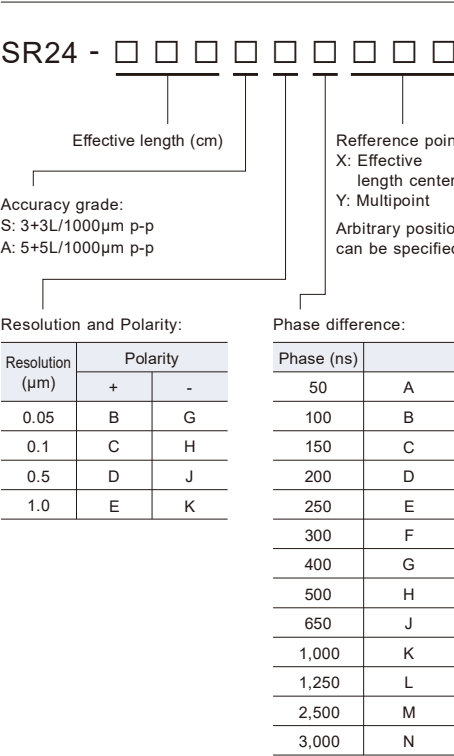
Model name	SR24
Effective length (L)	70 to 2,040mm
Thermal expansion	12 ± 1 × 10 ⁻⁶ /°C
Output signal	A/B/Reference point line driver signal, compliant with EIA-422
Minimum phase difference time	Selectable from 50/100/150/200/250/300/400/500/650/1000/1250/2500/3000ns (set at time of order)
Accuracy (at 20°C)	(3+3L/1,000)µm p-p or (5+5L/1,000)µm p-p L: Measuring length (mm)
Resolution	Selectable from 0.05/0.1/0.5/1µm (set at factory shipping)
Reference point position	Center point, Multi-point (40mm pitch), User-selected point (1mm pitch)
Power supply voltage	DC 4.75 to 5.25V (at cable connection end)
Consumption current	250mA (with 5V controller connection)
Inrush current	2A or less (when the power supply rise time is 10ms)
Maximum response speed	50m/min (resolution: 0.1µm, Minimum phase difference: at 50ns)
Vibration resistance	150m/s ² (50Hz to 3,000Hz)
Impact resistance	350m/s ² (11 ms)
Protective design grade	IP54 (air purge not included), IP65 (air purge included)
Power supply protection	In the case of errors such as a reverse-connected power supply or over-voltage, the internal fuse is cut to protect the power supply and wiring.
Product Safety	FCC Part15 Subpart B Class A ICES-003 Class A Digital Device EN/BS 61000-6-2, EN/BS 61000-6-4
Product Environment	EN/BS 63000
Operating temperature	0 to +50°C
Storage temperature	-20 to +55°C
Mass	Approx. 0.39kg + 1.53kg/m or less
Carriage sliding resistance	1N or less
Compatible cables(types without relay connectors)	CH23-***NV
Maximum cable length	13m
Compatible cables(types with relay connectors)	CH23-***NVU + CH23-***NPZW
Maximum cable length	30m

Dimensions



⚠ To use this product safely, please read the instruction manual carefully and thoroughly prior to usage.

Model name



unit: mm

L	L1	L2	L3	L4	L5	n
70	208	185	-	-	-	0
120	258	235	-	-	-	0
170	308	285	-	-	-	0
220	358	335	-	-	-	0
270	408	385	-	-	-	0
320	458	435	-	-	-	0
370	508	485	-	-	-	0
420	558	535	-	-	-	0
470	608	585	-	-	-	0
520	658	635	-	-	-	0
570	708	685	-	-	-	0
620	758	735	-	-	-	0
670	808	785	392.5	-	392.5	1
720	858	835	417.5	-	417.5	1
770	908	885	442.5	-	442.5	1
820	958	935	467.5	-	467.5	1
920	1,058	1,035	517.5	-	517.5	1
1,020	1,158	1,135	567.5	-	567.5	1
1,140	1,278	1,255	627.5	-	627.5	1
1,240	1,378	1,355	677.5	-	677.5	1
1,340	1,478	1,455	727.5	-	727.5	1
1,440	1,578	1,555	777.5	520	515	2
1,540	1,678	1,655	827.5	550	555	2
1,640	1,778	1,755	877.5	585	585	2
1,740	1,878	1,855	927.5	620	615	2
1,840	1,978	1,955	977.5	650	655	2
2,040	2,178	2,155	1,027.5	720	715	2

*L: Effective length
*MG: Machine guide
*Intermediate foot plate: One location when L ≥ 670mm, two locations when L ≥ 1,440mm

Magnescale Co., Ltd.

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Magnescale reserves the right to change products and specifications without prior notice.



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