

SR84/85

This robust medium type magnetic scale system that outputs position signals for machine tools and other equipment that require high-precision positioning.



- Measuring Length(ML) : 140-3,040mm
- Accuracy : 3+3ML/1,000 μm p-p, 5+5ML/1,000 μm p-p
- Maximum resolution : 0.01 μm
- Maximum response speed : 200m/min.
- Protocol (SR85) : Mitsubishi

Robust type
Maximum resolution 0.01 μm (SR85 only)

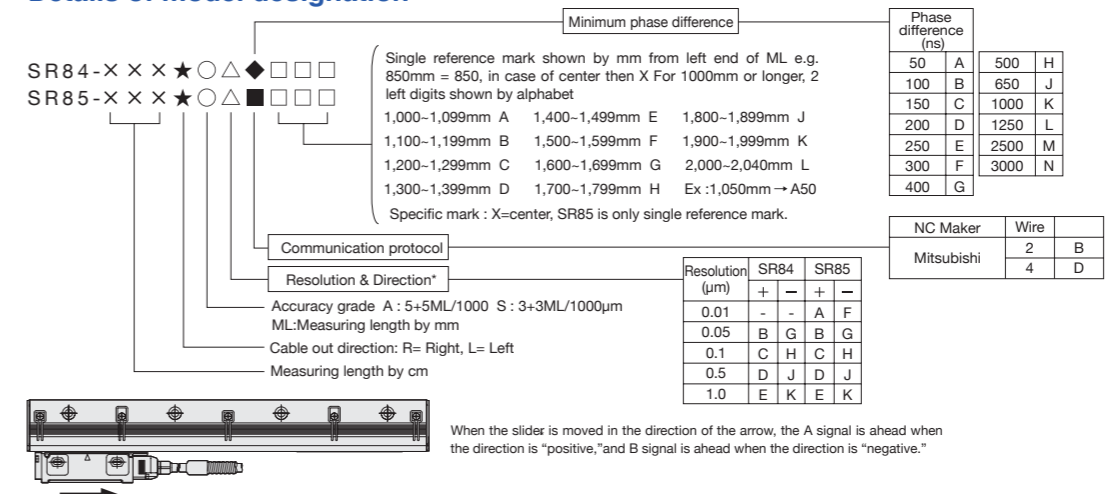
Specifications

Model	SR84	SR85
Measuring length (ML)	140-3040mm 140, 240, 340, 440, 540, 640, 740, 840, 940, 1040, 1140, 1240, 1340, 1440, 1540, 1640, 1740, 1840, 2040, 2240, 2440, 2640, 2840, 3040	
Thermal expansion coefficient (/ °C)	12 ± 1 x 10 ⁻⁶ / °C	
Output signal	A/B, Reference point line driver signal (compliant with EIA-422)	Incremental serial bidirectional signal, compliant with EIA-485
Accuracy (at 20 °C) ML:mm	3+3ML/1,000 μm p-p or 5+5ML/1,000 μm p-p	
Resolution	Selectable from 0.05,0.1,0.5 and 1.0 μm (Set at factory shipping)	Selectable from 0.01,0.05,0.1,0.5 and 1.0 μm (Set at factory shipping)
Reference point	None, Center point, Multi-point (40 mm pitch), Reference mark (standard pitch: 20 mm), User-selected point (1 mm pitch)	None, Center point, User-selected point (1 mm pitch)
Power supply voltage	DC4.75 - 5.25V(At cable connection end)	
Consumption current	200 mA (at 120 Ω terminal) max.	
Inrush current	2A max. (When the power supply rise time is 10 ms)	
Maximum response speed	50m/min(Resolution: 0.1 μm, Minimum phase difference: at 50 ns)	200m/min (User-selected resolution setting)
Vibration resistance	250m/s ² (50Hz-2kHz)	
Impact resistance	450m/s ² (11ms)	
Protective design grade	IP54 (Air purge not included), IP65 (Air purge included)	
Other protections	Oil lubricant can also be used under severe environmental conditions.	
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 being supplied and wiring.	
Safety standards	FCC Part15 Subpart B Class A, ICES-003 Class A Digital Device, EN55011 Gp1 Class A, EN61000-6-2. Safety standards not applicable (60 V DC or less).	
Operating temperature range(°C)	0 ~ +50 °C	
Storage temperature range(°C)	-20 ~ +55 °C	
Mass	Approx.1.24kg + 4kg/m	
Slider sliding resistance	1N or less	

Model	CH33-CP	CH33-CE
Description	Cable with open end	Cable with open end
Cable length	3,5,10,15m	
Material	PVC	PU
Armor	YES	YES

*Please consult with our sales for the cable length other than above.

Details of model designation

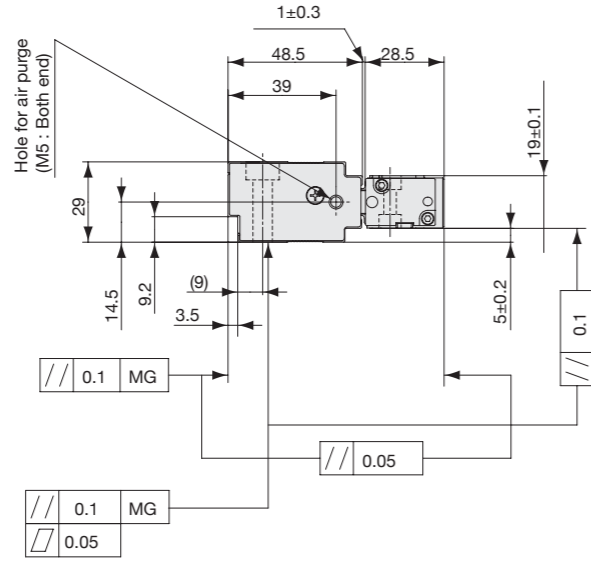


Dimensions SR84/85
Cable Direction Right

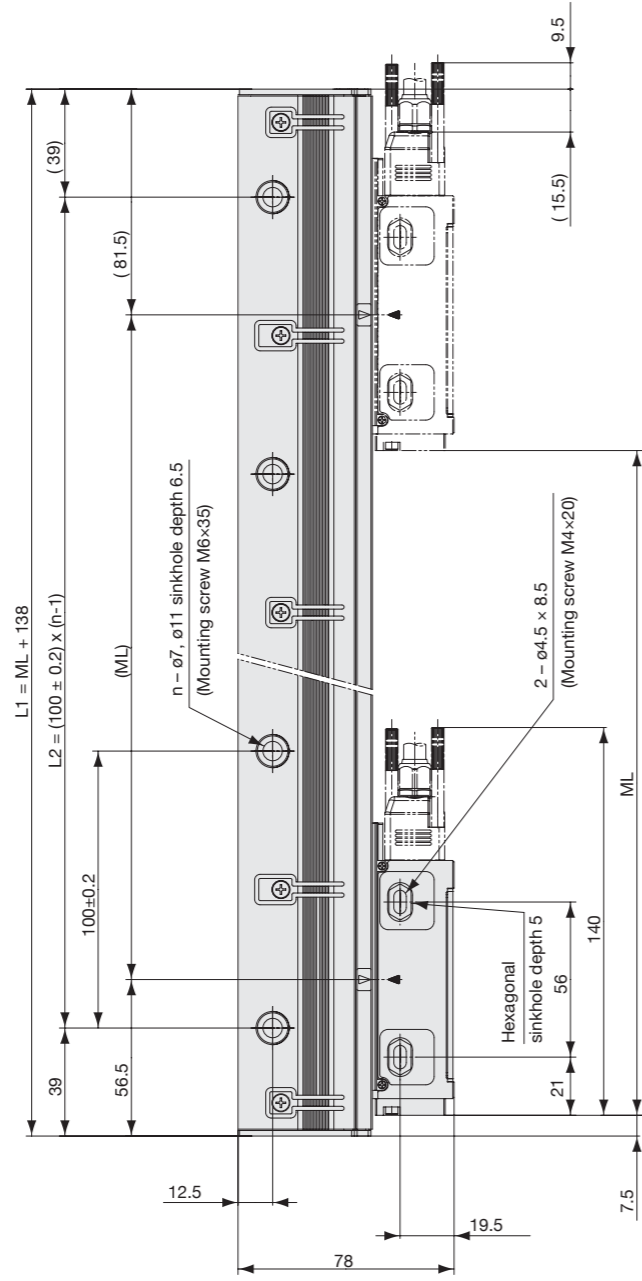
ML	L1	L2	n
140	278	200	3
240	378	300	4
340	478	400	5
440	578	500	6
540	678	600	7
640	778	700	8
740	878	800	9
840	978	900	10
940	1078	1000	11
1040	1178	1100	12
1140	1278	1200	13
1240	1378	1300	14

ML	L1	L2	n
1340	1478	1400	15
1440	1578	1500	16
1540	1678	1600	17
1640	1778	1700	18
1740	1878	1800	19
1840	1978	1900	20
2040	2178	2100	22
2240	2378	2300	24
2440	2578	2500	26
2640	2778	2700	28
2840	2978	2900	30
3040	3178	3100	32

ML : Measuring length CL : Cable length MG: Machine guide Unit : mm



Unit : mm

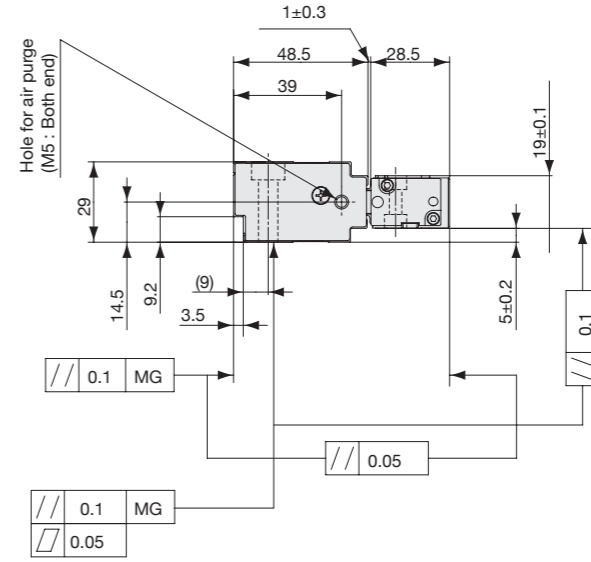


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