Linear robust type

SR67A

· High rigidity provides resistance to shock and vibration

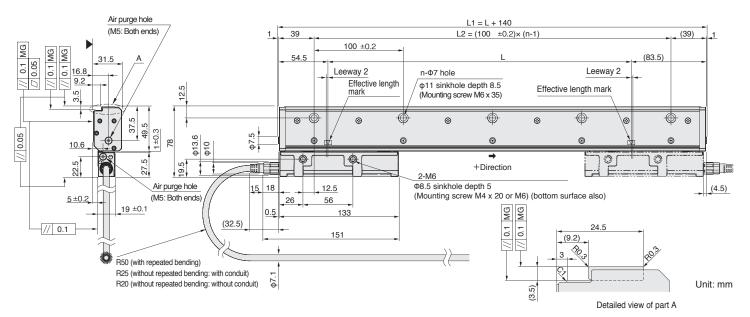
- Magnetic system allows use even in environments with condensation, oil, and other adverse conditions
- Supports the communication protocol of each supporting manufacturer
- · Same thermal expansion as iron

FANUC

Mitsubishi Electric

SIEMENS

Dimensions



Effective length	Total length	Mounting pitch	Number of intermediate foot plates
L	L1	L2	n
140	280	200	3
240	380	300	4
340	480	400	5
440	580	500	6
540	680	600	7
640	780	700	8
740	880	800	9
840	980	900	10
940	1,080	1,000	11
1,040	1,180	1,100	12
1,140	1,280	1,200	13
1,240	1,380	1,300	14
1,340	1,480	1,400	15
1,440	1,580	1,500	16

Effective length	Total length	Mounting pitch	Number of intermediate foot plates
L	L1	L2	n
1,540	1,680	1,600	17
1,640	1,780	1,700	18
1,740	1,880	1,800	19
1,840	1,980	1,900	20
2,040	2,180	2,100	22
2,240	2,380	2,300	24
2,440	2,580	2,500	26
2,640	2,780	2,700	28
2,840	2,980	2,900	30
3,040	3,180	3,100	32
3,240	3,380	3,300	34
3,440	3,580	3,500	36
3,640	3,780	3,700	38

Unit: mm

MG: Machine guide

Notes • The surface indicated by the ▲ marks is the installation surface.

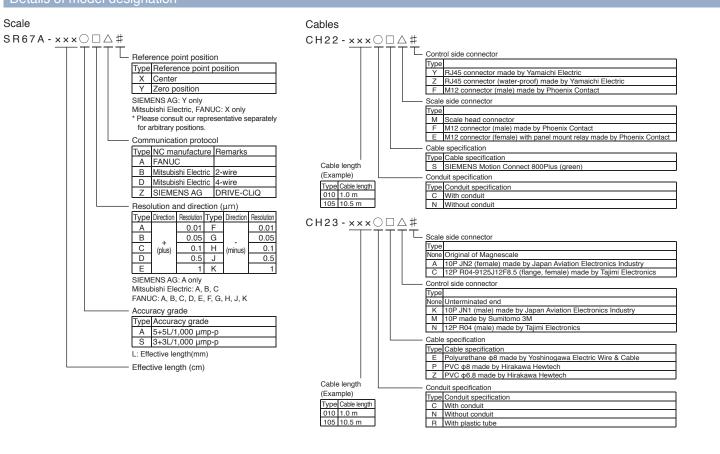
• Screws indicated in the diagram are supplied as standard accessories.

• Movement outside the effective length (L) will damage the scale head. It is recommended that the mechanical movable length (stroke) be set to 10 mm or more to the inside of both ends of the effective length (L).

Specifications

Specifications					
Model name	SR67A-×××○□A#	SR67A-×××○□BX SR67A-×××○□DX	SR67A-×××○AZY		
Effective length (L: mm)	140 - 3,640				
Thermal expansion coefficient	12±1 × 10 ⁻⁶ /°C				
Accuracy(at 20°C)	3+3L/1,000 μmp-p (effective length 140 to 3,040 mm) or 5+5L/1,000 μmp-p (effective length 140 to 3,640 mm), L: Effective length (mm)				
Reference point	Center, or user-selected position (Set at factory shipping)	Fixed to center	Fixed to 10 mm from left end of effective length		
Output signal	Absolute serial bidirectional si	Compliant with DRIVE-CLiQ			
Compatible controllers	FANUC ai interface compatible	Mitsubishi Electric	SIEMENS AG		
Resolution	Selectable from 0.01, 0.05, 0.1, 0.5 and 1 μm (Set at factory shipping)	Selectable from 0.01, 0.05 and 0.1 μm (Set at factory shipping)	0.01 μm		
Maximum response speed	200 m/min				
Functional safety	Please consult with each controller manufacturer regarding support for functional safety.		EN ISO13849-1:2008 Cat.3 EN 62061:2005 / IEC 61508:2010 EN61800-5-2:2007		
Legal compliance	FCC Part15 Subpart B Class A ICES-003 Class A Digital Device EN55011 Gp1 Class A, EN61000-6-2				
Operating temperature range	0 to +50°C				
Storage temperature range	-20 to +55°C				
Vibration resistance	250 m/s² (50 Hz to 3,000 Hz)				
Impact resistance	450 m/s² (11 ms)				
Protective design grade	IP54 (Air purge not included), IP65 (Air purge included)				
Power supply voltage range	DC+4.75 to +5.25 V		DC+17 to +30.8 V		
Maximum power consumption	1.3W or less (4.75V or 5.25V)		1.75W or less (17V) 1.9W or less (30.8V)		
Power consumption	250mA (5V) (when the controller is connected)		75mA (24V) (when the controller is connected)		
Mass	Approx. 0.9kg+ 5.2kg/m or less				
Compatible cables (types without relay connectors) Maximum cable length	CH23-***NVF 13 m	CH23-***NVM 13 m	CH22-***NSMY 30 m		
Compatible cables (types with relay connectors) Maximum cable length	CH23-***NVK + CH23-***NPFA 30 m	CH23-***NVK + CH23-***NPMA 30 m	CH22-***NSMF + CH22-*** NSFY 30 m		

Details of model designation



13

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