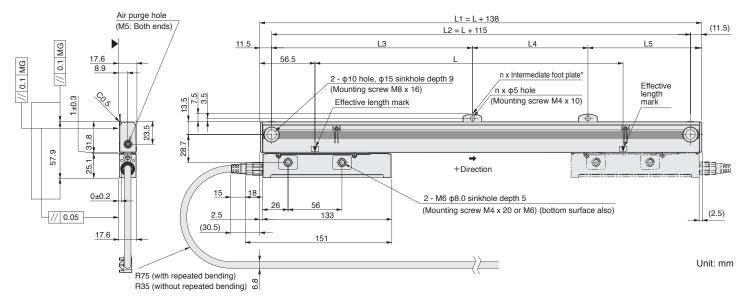
## Linear slim type

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



## Dimensions



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

MG: Machine guide  $\,^*$  Intermediate foot plate: One location when  $L \ge 670$  mm, two locations when  $L \ge 1440$  mm

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).

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Model name	SR27A-×××○□A#	SR27A-×××○□B# SR27A-×××○□D#	SR27A - ×××○AZY					
Effective length (L: mm)	70 - 2,040							
Thermal expansion coefficient	12±1 × 10 <sup>-6</sup> /°C							
Accuracy(at 20°C)	3+3L/1,000 μmp-p or 5+5L/1,000 μmp-p, 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 s	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 cont support for fun	EN ISO13849-1:2008 Cat.3 EN 62061:2005 / IEC 61508:2010 EN61800-5-2:2007						
Legal compliance								
Operating temperature range	0 to +50°C							
Storage temperature range	-20 to +55°C							
Vibration resistance	150 m/s² (50 Hz to 3,000 Hz)							
Impact resistance	350 m/s² (11 ms)							
Protective design grade	IP54 (Air purge not included), IP65 (Air purge included)							
Power supply voltage range	DC+4.75 t	DC+17 to +30.8 V						
Maximum power consumption	1.3W or less (4	1.75W or less (17V) 1.9W or less (30.8V)						
Power consumption	250mA (5V) (when the	75mA (24V) (when the controller is connected)						
Mass		Approx. 0.39kg+ 1.53kg/m or less	0.39kg+ 1.53kg/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

Scale

