

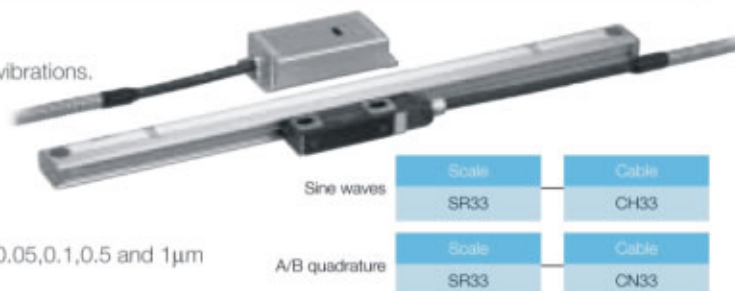
SR

SR33

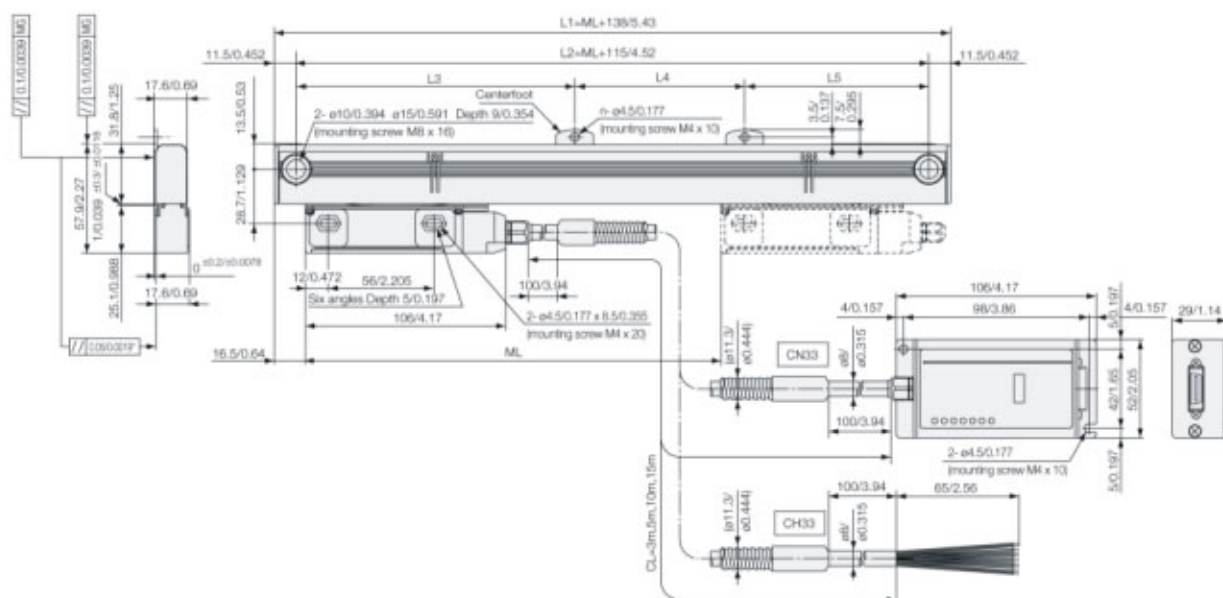
The scale boasts superior speed and accuracy in addition to its conventional high level of reliability in a hostile environment

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DISTRIBUIDOR AUTORIZADO

- Magnetic principle
- Excellent resistance to workshop conditions. Resistance to oil, dirt and vibrations.
- Stable output of 40µm low-distortion sine waves and enhanced interpolation accuracy achieved by a magnetic head exclusively developed for the SR33.
- Resolution: 0.05µm to 1µm
- Accuracy: 3+3 ML / 1000µm p-p, 5+5 ML / 1000µm p-p
- The resolution of the A/B quadrature signals can be switched between 0.05, 0.1, 0.5 and 1µm with CN33 Interpolator for SR33.



Dimensions



ML	70	120	170	220	270	320	370	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420	1470	1520	1570	1620	1670	1720	1770	1820	1870	1920	1970	2020				
L1	208	298	388	478	568	658	748	838	928	1018	1108	1198	1288	1378	1468	1558	1648	1738	1828	1918	2008	2098	2188	2278	2368	2458	2548	2638	2728	2818	2908	2998	3088	3178	3268	3358	3448	3538	3628	3718	3808	3898	3988	
L2	185	275	365	455	545	635	725	815	905	995	1085	1175	1265	1355	1445	1535	1625	1715	1805	1895	1985	2075	2165	2255	2345	2435	2525	2615	2705	2795	2885	2975	3065	3155	3245	3335	3425	3515	3605	3695	3785	3875	3965	
L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*1 ML: Measuring length

*2 CL: Cable length

*3 MG: Machine guide

*4 Center foot: 1 foot for ML ≥ 720 mm
2 feet for ML ≥ 1440 mm

Unit : mm/inch

Specifications

Model	SR33	SR33 with CN33
Measuring length (ML)/mm/inch	70,120,170,220,270,320,370,420,470,520,570,620,720,770,820,920,1020,1140,1240,1340,1440,1540,1640,1740,1840,2040 (2.76",4.72",6.69",8.66",10.63",12.6",14.57",16.54",18.5",20.4",22.4",24.4",28.3",30.3",32.2",36.2",40.1",44.88",48.81",52.7",56.69",60.62",64.5",68.5",72.44",80.3")	
Output signal	Sine wave [1Vp-p]	A/B/Z quadrature
Signal pitch	40 μm	-
Resolution	-	0.05/0.1/0.5/1μm(selectable using a switch)
Minimum phase difference	-	62.5,125,187.5, 250 ns ⁻³
Accuracy ^{1 +2}	3+3 ML /1000μm p-p, 5+5 ML /1000μm p-p	
Reference point ²	One point (1 mm unit), Multi point (40 mm pitch), Reference mark (absolute position value is established with a maximum traverse of 20 mm)	
Maximum response speed	150m/min	150m/min Resolution 1μm Minimum phase difference: 250 ns
Vibration resistance (50-3000 Hz)	150m/s ²	
Impact resistance (11 ms)	350m/s ²	
Thermal expansion coefficient	(12 ± 1) x10 ⁻⁶ /°C	
Protective design grade	Equivalent to IP54 (when air is not supplied) /Equivalent to IP65 (when air is supplied) CN33: no grade	
Operating temperature range	0 to 50°C / 32 to 122°F	
Power supply voltage	DC +5V±5%	
Power consumption	150mA (at 120 Ω termination)	400mA (at 120 Ω termination)
Output cable length	150m max.(when using CH33)	30m max.(selected based on the length of CN33)