

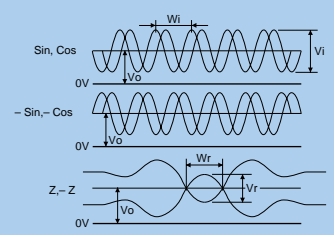
DIGIRULER®

PL101 Series

Head cable unit

- Non-contact detection
- Magnetic detection system for excellent resistance to dust, oil, vibrations and shocks
- Detects linear position and displacement and produces analog signal output when connected to the SL700 Series. Produces A/B phase signal when connected to MJ500/600 Series interpolator
- A wide range of models is available so you can select the best model for your specific application

SL331 Specifications

Model	PL101-N	PL101-R	PL101-RH																								
Protective grade	Equivalent to IP50		Equivalent to IP67 (Detector only)																								
Reference point detection function	No	Available																									
Resolution (Connected to MJ600/620)	1, 2, 5, 10, 20, 25 μm (MJ620), 1 μm (MJ600), 2, 10 μm (MJ500)																										
Accuracy	±10 μm *When used with SL700 series: *Accuracy at 20 °C per 1 m as measured before shipment																										
Clearance*	0.35 ± 0.1 mm																										
Offset	± 0.2 mm																										
Attitude change	Pitch*	± 0.1°																									
	Yaw*	± 0.2°																									
	Roll*	± 0.2°																									
Output signal	1 Vp-p Analog output Differential output  <table border="1" data-bbox="1181 883 1372 989"> <thead> <tr> <th></th> <th>Min.</th> <th>Typ.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>V_i</td> <td>0.30</td> <td>0.52</td> <td>0.70</td> </tr> <tr> <td>V_r</td> <td>0.20</td> <td>0.68</td> <td>1.00</td> </tr> <tr> <td>W_i</td> <td>—</td> <td>800</td> <td>—</td> </tr> <tr> <td>W_r</td> <td>200</td> <td>800</td> <td>1400</td> </tr> <tr> <td>V_o</td> <td>—</td> <td>2.5</td> <td>—</td> </tr> </tbody> </table>				Min.	Typ.	Max.	V _i	0.30	0.52	0.70	V _r	0.20	0.68	1.00	W _i	—	800	—	W _r	200	800	1400	V _o	—	2.5	—
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Power supply voltage	DC 5V ± 5%																										
Power consumption	Max. 150 mA (0.8W)																										
Max. response speed	6.4 m/s																										
Cable length	300 mm	3000 mm																									
Mass	60 g	150 g																									
Operating temperature	0 to 45 °C																										
Storage temperature	-20 to 50 °C																										
Standard compliance	EMI: EN55011 Group 1 Class A EMS: EN50082-2 FCC Part 15 Subpart B Class A ICES-003 CLASS A DIGITAL DEVAUCE																										
Extension cable (Option)	CK-T12 ... 1 m CK-T13 ... 3 m CK-T14 ... 5 m CK-T15 ... 10 m (By extension cable, it can be extended up to Max 10 m)																										

*Refer to Dimensions drawings below.



Dimensions

