

DLS-W series



General Characteristics:

- Resolutions up to 0.5um
- Cross Size 22 x 52.8 mm²
- Max Measure Length: 1200mm



Mechanical and Electrical Features

Grating Pitch	20um		<table border="1"> <thead> <tr> <th>pin</th> <th>PP signal</th> <th>EIA422 signal</th> </tr> </thead> <tbody> <tr><td>1</td><td>—</td><td>\bar{A}</td></tr> <tr><td>2</td><td>OV</td><td>OV</td></tr> <tr><td>3</td><td>—</td><td>\bar{B}</td></tr> <tr><td>4</td><td>GND</td><td>GND</td></tr> <tr><td>5</td><td>—</td><td>\bar{R}</td></tr> <tr><td>6</td><td>A</td><td>A</td></tr> <tr><td>7</td><td>5V</td><td>5V</td></tr> <tr><td>8</td><td>B</td><td>B</td></tr> <tr><td>9</td><td>R</td><td>R</td></tr> </tbody> </table>	pin	PP signal	EIA422 signal	1	—	\bar{A}	2	OV	OV	3	—	\bar{B}	4	GND	GND	5	—	\bar{R}	6	A	A	7	5V	5V	8	B	B	9	R	R
pin	PP signal			EIA422 signal																													
1	—			\bar{A}																													
2	OV			OV																													
3	—			\bar{B}																													
4	GND			GND																													
5	—			\bar{R}																													
6	A			A																													
7	5V			5V																													
8	B			B																													
9	R			R																													
Thermal Expansion	10.6×10^{-6}																																
Resolution	0.5 - 1 - 5 um																																
Repeatability	± 1 increment																																
Max Speed m/min	60(5um); 20(1um)																																
Output type	TTL / EIA422A																																
Max. Acceleration	20 m/S ²																																
Protection	IP54																																
Power supply	60mA Max.																																
Phase displacement	90° ± 5° electrical																																
Operating temperature	0° - 50°																																
Storage temperature	-20° - 80°																																
Humidity	100% not condensed																																

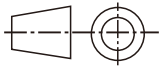
Interface Circuit and output signals

INTER FACE CIRCUIT		OUTPUT SIGNALS	
<p>TTL</p>	<p>SCALE COUNTER</p> <p>A/B/RI</p> <p>R1 R2 R3</p> <p>C1 C2</p> <p>74HC14</p> <p>R1=68 C1=1000pF R2=100 C2=1000pF R3=10K</p>		
<p>EIA422A</p>	<p>SCALE COUNTER</p> <p>A/B/RI</p> <p>R1 R2 R3</p> <p>26LS31 26LS32</p> <p>R1=120 R2=R3=5K</p>		



Dimensions and Mounting Tolerances

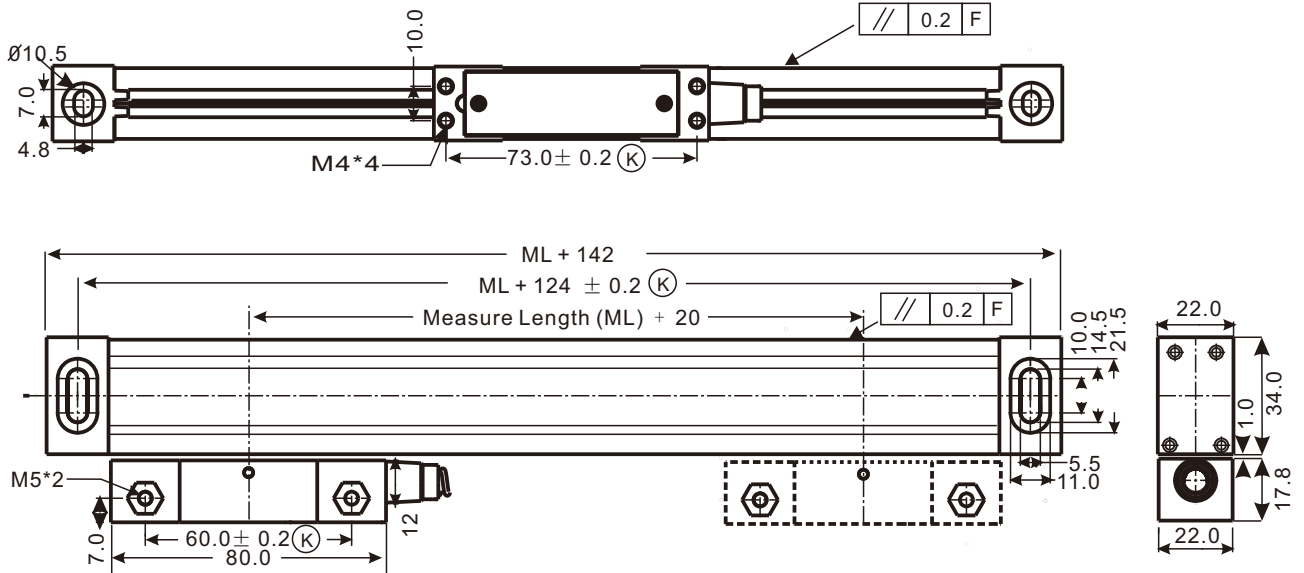
Unit: mm



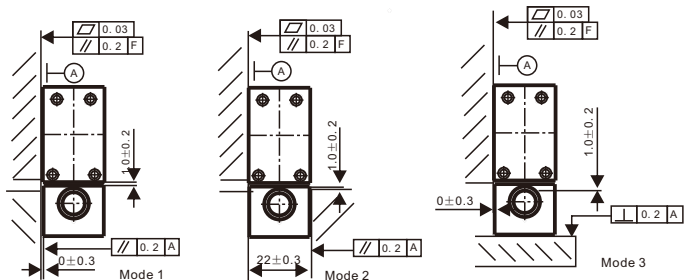
Tolerancing ISO8015
 ISO 2768 -mH
 < 6 mm ±0.2mm

Delos Linear Scale

DLS-W



Measure Length: (mm)
 50, 100, 120, 200, 250, 300, 350,
 400, 450, 500, 550, 600, 650, 700,
 750, 800, 850, 900, 950, 1000, 1050,
 1100, 1150, 1200 (Max ML)



Note: F = Machine guideway;
 (K) = Required mating dimensions

Ordering Code

TYPE	RESOLUTION	MEASURE LENGTH	CABLE LENGTH	VOLTAGE	OUTPUT MODE	MARK POINT	OEM LOGO
DLS-W	5R	xxxx	Cxx	Vxx		Mxx	
DLS-W	5R = 5um 1R = 1um	1000=1meter	C35 = 3.5meter	V05 = 5 V V24 = 24V	TTL EIA422	M0 = Center Point M1 = Left Point M2 = Right Point M3 = 50mm point	

Example: DLS-W5R1200



Delos Encoder Co., Ltd

WWW.delos-encoder.com sales@delos-encoder.com Tel: 86-755 8976 9252

Addr: Rm607 No. 10th Building center hongmian 1 Rd, Henggang Town, Longgang Area, ShenZhen, Guangdong CHINA 518000