

Class ID PLS2	Ltem 25	Edition 1.5	Name PLS2 (Universal type)
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Technical parameters and instructions

简介

brief introduction to product classification:

The closed type is mainly used in conjunction with our DRO counters on machine tools and similar equipment, these scales are designated PLS and have a scale output is square wave. (TTL or RS422). These scales are divided into groups determined by measurement length and accuracy/resolution as shown in the table below. A complete range of accessories is provided to facilitate installation.



Mechanical and electrical parameters																																																									
PLS2 is the most commonly used standard ruler(TTL electric level).For the PLS2 Series of linear encoder from our company, every ruler has passed through the strict quality measure technology dynamic laser control is used to ensure that the precision of every ruler has met the required standard before being delivered from the factory.			PLS-255N 5L M02/N DB9 (Universal type)																																																						
			<table border="1"> <tr><td>Pitch</td><td colspan="2">20 μm</td></tr> <tr><td>Measrus Length (mm)</td><td colspan="2">50-1050(PLS2)</td></tr> <tr><td>Cross section (mm)</td><td colspan="2">22X33(PLS2)</td></tr> <tr><td>Glass expansion coefficient</td><td colspan="2">10.6 x 10⁻⁶ °C⁻¹</td></tr> <tr><td>Resolution (μm)</td><td colspan="2">0.5/1/5</td></tr> <tr><td>Accuracy2</td><td colspan="2">±15 μm / m (20°C/68°F)</td></tr> <tr><td>Repeatability</td><td colspan="2">±5 μm</td></tr> <tr><td>Cable</td><td colspan="2">9 cores/5 cores</td></tr> <tr><td>Output mode</td><td colspan="2">TTL, RS422A</td></tr> <tr><td>Output signal frequency (max)</td><td colspan="2">1MHz</td></tr> <tr><td>Power supply</td><td colspan="2">5Vdc ± 5%/24 Vdc ± 5%</td></tr> <tr><td>Current consumpt .with load</td><td colspan="2">50mA max</td></tr> <tr><td>A B phase deviation</td><td colspan="2">90° ± 10° (MAX)</td></tr> <tr><td>Maximum speed</td><td colspan="2">2m/s</td></tr> <tr><td>Shock resistnace</td><td colspan="2">30m/s²</td></tr> <tr><td>Protection</td><td colspan="2">IP55</td></tr> <tr><td>Operating temperature</td><td colspan="2">0⁰~50⁰C</td></tr> <tr><td>Storage temperature</td><td colspan="2">-20⁰~80⁰C</td></tr> <tr><td>Working conditions</td><td colspan="2">Temperature : -10~45° humidity : ≤90%</td></tr> </table>	Pitch	20 μm		Measrus Length (mm)	50-1050(PLS2)		Cross section (mm)	22X33(PLS2)		Glass expansion coefficient	10.6 x 10 ⁻⁶ °C ⁻¹		Resolution (μm)	0.5/1/5		Accuracy2	±15 μm / m (20°C/68°F)		Repeatability	±5 μm		Cable	9 cores/5 cores		Output mode	TTL, RS422A		Output signal frequency (max)	1MHz		Power supply	5Vdc ± 5%/24 Vdc ± 5%		Current consumpt .with load	50mA max		A B phase deviation	90° ± 10° (MAX)		Maximum speed	2m/s		Shock resistnace	30m/s ²		Protection	IP55		Operating temperature	0 ⁰ ~50 ⁰ C		Storage temperature	-20 ⁰ ~80 ⁰ C	
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The data line length (Standard 2.6M)			PLS150-25N 5L MST DB9																																																						
DB9 Project definition	RS422	TTL																																																							
1	A	-																																																							
2	GND	GND																																																							
3	B	-																																																							
4	PE	-																																																							
5	R	-																																																							
6	A	A																																																							
7	+V	+V																																																							
8	B	B																																																							
9	R	R																																																							
The sensor is normally supplied with a 2.6m cable. It is possible to require longer cable, considering the following maximum available length. TTL Lmax=10m(sensor cable); RS422 Lmax=100m(2m sensor cable+cable extension ¹)																																																									

备注:

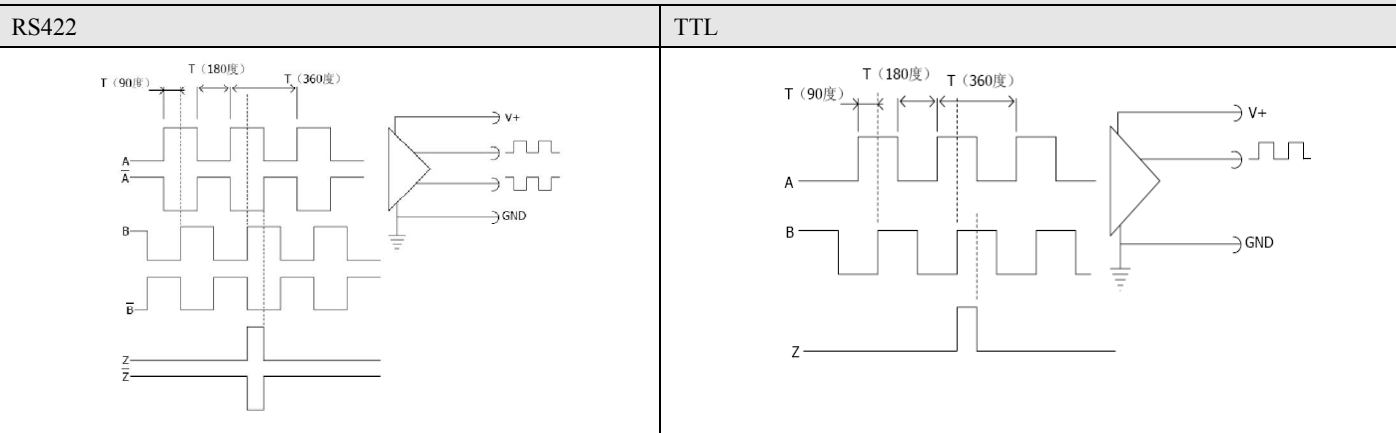
ORDERING CODE

MODEL	Series	RESOLUTION	ZERO MARKER	POWER SUPPLY	OUTPUT	CABLE	CONNECTION
PLS	2	5	C	0528	L	M02/N	SC
PLS	3=Big-sized	5=5μm	C=constant pitch	0528 =5~28V	L=LINE-DRIVER	M01N=1m	SC=without conn
	2= common	1=1μm	E=Extetal	5=5V	R=RS422	M02/N=2m	DB9=DB9
	1= small-sized	H=0.5μm	N=No Zero Marker	24=24V		M10/N=10m	

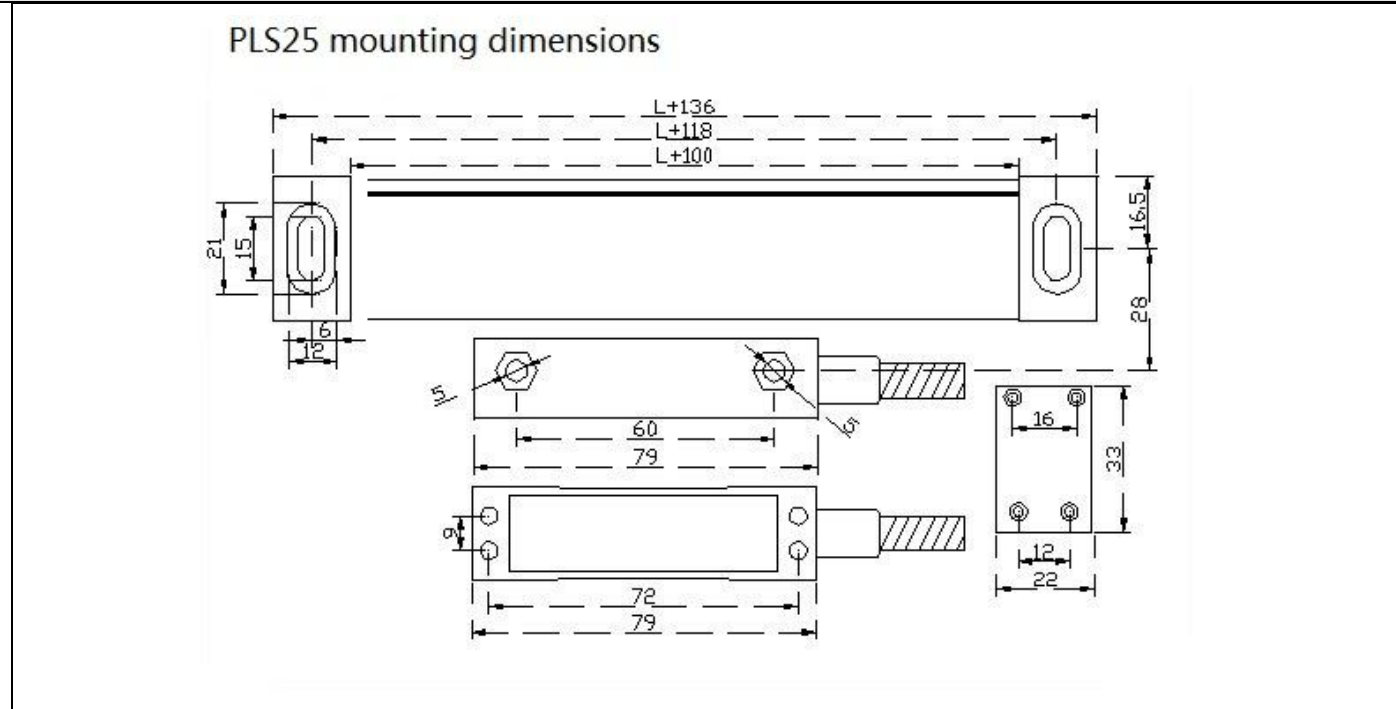
For instance: → PLS150 25 C5L 2SC

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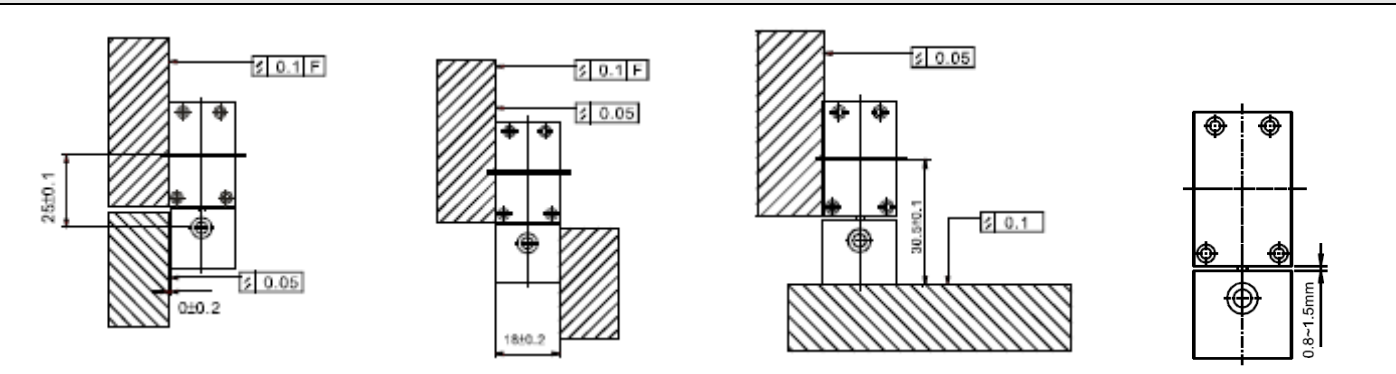
The output signal



Dimensions



Installation mode



Mode A

Mode B

Mode C

Gap