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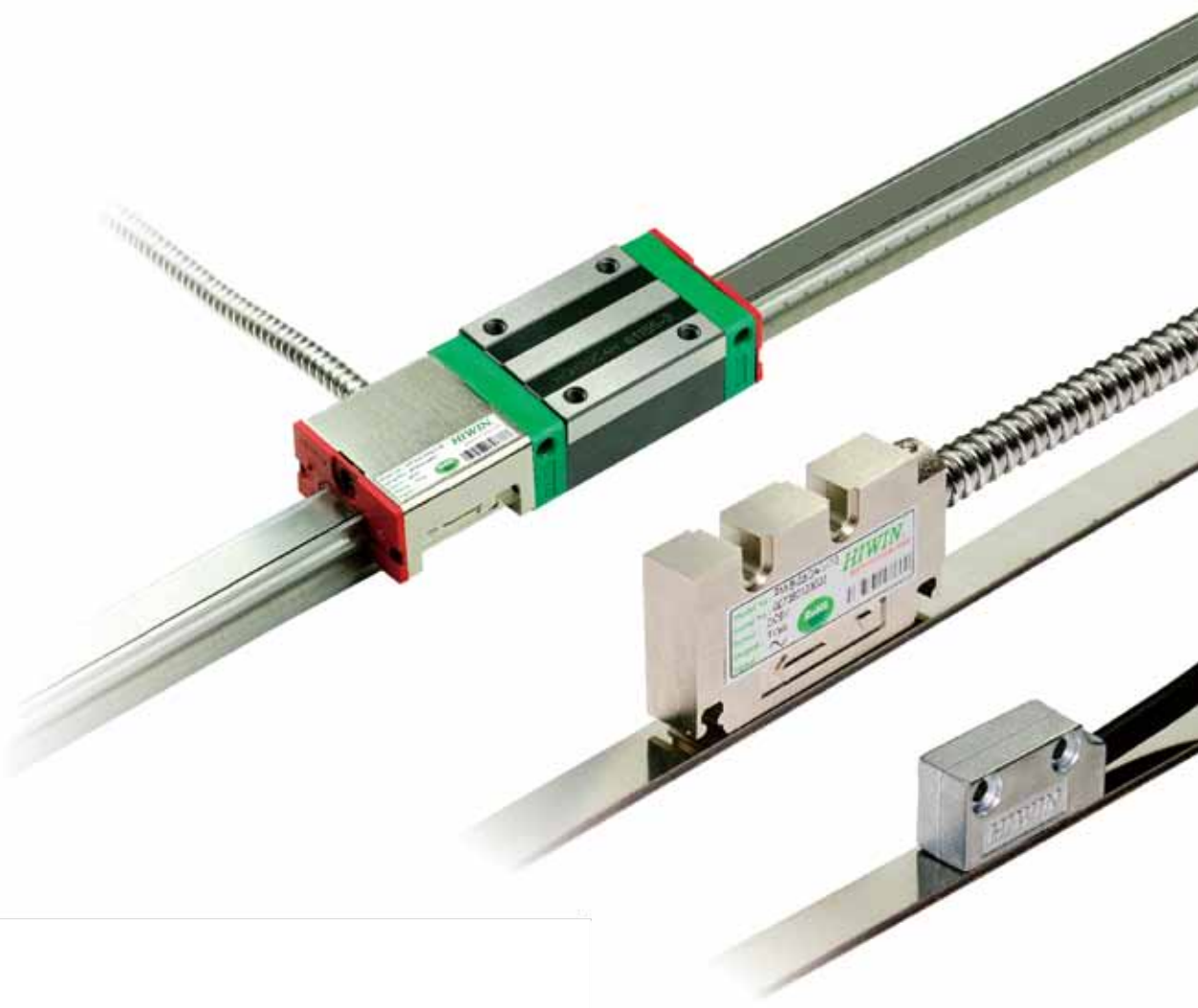
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HIWIN®
Motion Control and System Technology

Positioning Measurement System



Technical Information

HIWIN®
Motion Control and System Technology

INDUSTRIE 4.0 Best Partner



Multi Axis Robot

Pick-and-place / Assembly /
Grinding and Polishing / Semiconductor /
Light Industry / Automotive industry /
Food industry

- Articulated Robot
- Delta Robot
- Movable Delta Robot
- SCARA Robot
- Wafer Robot
- Electric Gripper



Single Axis Robot

Precision / Semiconductor /
Medical / FPD

- KK , SK
- KS, KA
- KU, KE



Medical Equipment

Hospital / Rehabilitation centers /
Nursing homes

- Robotic Gait Training System
- Hygiene System
- The Robotic Endoscope Holder
- Robot for Upper Limb Exercise



Ballscrew

Precision Ground / Rolled

- Super S series
- Super T series
- Mini Roller
- Ecological & Economical lubrication Module E2
- Rotating Nut (R1)
- Energy-Saving & Thermal-Controlling (C1)
- Heavy Load Series (RD)



Linear Guideway

Automation / Semiconductor / Medical

- Ball Type--HG, EG, WE, MG, PM
- Quiet Roller Type--QH, QE, QW, QR
- Other--RG, E2, PG, SE, RC



Direct Drive
CNC Tilting Rotary

Aerospace / Medical / Auto industry

- RAB-800
- RAB-500



Bearing

Machine tools / Robot

- Crossed Roller Bearings
- Ball Screw Bearings
- Linear Bearing
- Support Unit



AC Servo Motor & Drive

Semiconductor / Packaging machine /
SMT / Food industry / LCD

- Drives-D1, D1-N, D2
- Motors-400W~2000W



Torque Motor
(Direct Drive Motor)

Inspection / Testing equipment /
Machine tools/ Robot

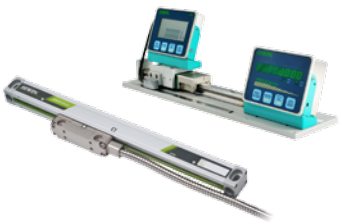
- Rotary Tables-TMS,TMY,TMN
- TMRW Series



Linear Motor

Automated transport / AOI application /
Precision / Semiconductor

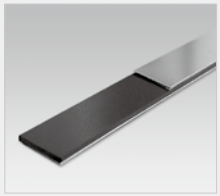
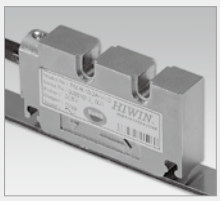
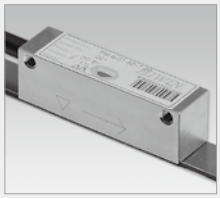
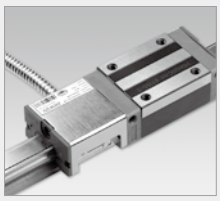
- With Iron-core
- Coreless Type
- Linear Turbo LMT
- Planar Servo Motor
- Air Bearing Platform
- X-Y Stage
- Gantry Systems



Positioning
Measurement System

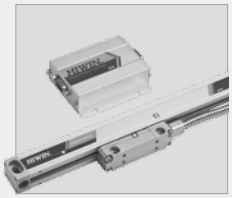
Cutting machines /
Traditional gantry milling machines /
Programmable drilling machines

- High Resolution
- Signal Translator
- High-precision Enclosed
- High Efficiency Counter








I. High Resolution Positioning Measurement System

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2. Positioning Measurement - Tiny Type 2
3. Positioning Measurement - Standard Type 5
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5. Positioning Measurement - PG Type 12
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IV. High Efficiency Counter

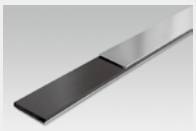
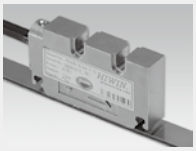
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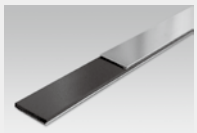
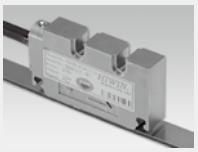
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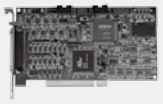
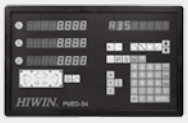
The Component Breakdown of the Positioning Measurement System - 1mm Placement Figure (Analog)

Pole Pitch	Refer Page	Resolution	Encoder Type	Refer Page	Signal	Type of Connector
1mm PS-B-□□□□□ 	Page 1	1μm	**T Type** **PM-B-□□-□A-T-□□** 	Page 2	**Analog**	**Flying Lead**  D-sub VGA 15 Pin 
			Standard Type PM-B-□□-□A-S-□□ 	Page5		D-sub 15 Pin  17 Pin Circular Plug 
			Vertical Type PM-B-□□-□A-V-□□ 	Page 11		SCSI 14 Pin  SCSI 14 Pin(**with screw**) 
			PG Type PM-B-□□-□A-G-□□-□□ 	Page 8		SCSI 20 Pin 

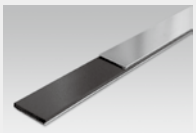
Translator	Refer Page	Trunk Connector	Refer Page	Counter/Display Application	Refer Page
				High Efficiency Single Axis Counter PMED-H1-1-00-□ 	Page 29
		Hiwin Drive 		Linear Motors (HIWIN LM) 	

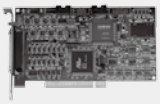
The Component Breakdown of the Positioning Measurement System - 1mm Placement Figure (Digital)

Pole Pitch	Refer Page	Resolution	Encoder Type	Refer Page	Signal	Type of Connector
1mm PS-B-□□□□□ 	Page 1	1μm	**T Type** **PM-B-□□-□D-T-□□** 	Page 2	Digital	**Flying Lead**  D-sub VGA 15 Pin 
			Standard Type PM-B-□□-□D-S-□□ 	Page 5		D-sub 15 Pin  17 Pin Circular Plug 
			Vertical Type PM-B-□□-□D-V-□□ 	Page 11		SCSI 14 Pin  SCSI 14 Pin(**with screw**) 
			PG Type PM-B-□□-□D-G-□□-□□ 	Page 8		SCSI 20 Pin 

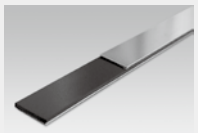
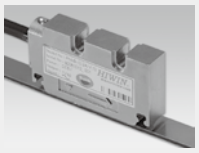
	Counter/Display Application	Refer Page
	PLC、Drive、Controller 	
	High Efficiency Single Axis Counter PMED-H1-1-00-□ 	Page 29
	High Efficiency Multi-axis Counter PMED-S4-□-□ 	Page 34
	Multi-axis Counter PMED-S3-□-□ 	Page 32
Hiwin Drive 	**Linear Motors (HIWIN LM)** 	

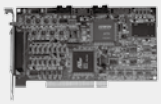
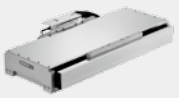
The Component Breakdown of the Positioning Measurement System - 5mm Placement Figure (Analog)

Pole Pitch	Refer Page	Resolution	Encoder Type	Refer Page	Signal	Type of Connector
5mm PS-A-□□□□□ 	Page 1	5μm	**E Type** PM-A-□□-□A-E-00 	Page 16	**Analog**	D-sub VGA 15 Pin 
			H Type PM-A-□□-□A-H-□□ 	Page 18		SCSI 14 Pin  SCSI 14 Pin (with screw) 

Translator	Refer Page	Trunk Connector	Refer Page	Counter/Display Application	Refer Page
				Micro LCD Counter UPLD-A-□□-□-□□ 	Page 27
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				High Efficiency Single Axis Counter PMED-H1-1-A1-□ 	Page 31
			Page 21	**High Efficiency Multi-axis Counter** PMED-S4-□-□ 	Page 36
Translator ST-A-□□ 	Page 20	**D-sub 9 Pin to D-sub VGA 15 Pin** STC-□□-00-□ 		**Multi-axis Counter** PMED-S3-□-□ 	Page 34
				PLC、Drive、Controller 	

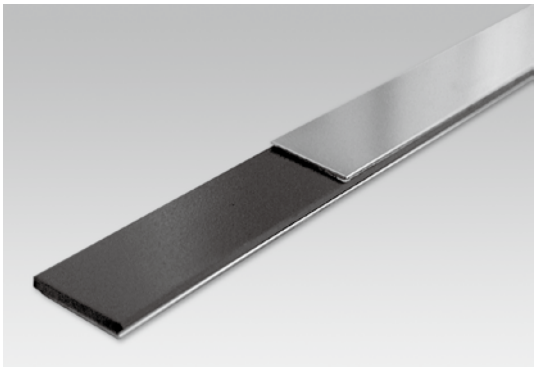
The Component Breakdown of the Positioning Measurement System - 5mm Placement Figure (Digital)

Pole Pitch	Refer Page	Resolution	Encoder Type	Refer Page	Signal	Type of Connector
5mm PS-A-□□□□□ 	Page 1	5μm	**Vertical Type** PM-A-□□-□D-V-□□ 	Page 11	**Digital**	**Flying Lead**  D-sub VGA 15 Pin  D-sub 15 Pin  **SCSI 20 Pin** 

	Counter/Display Application	Refer Page
	PLC、Drive、Controller 	
	High Efficiency Multi-axis Counter PMED-S4-□-□ 	Page 34
	Multi-axis Counter PMED-S3-□-□ 	Page 32
	High Efficiency Single Axis Counter PMED-H1-1-00-□ 	Page 29
Hiwin Drive 	Linear Motors (HIWIN LM) 	

I. High Resolution Positioning Measurement System

1. Positioning Scale



Features:

- Compatible with various measurement instruments to achieve different accuracy requirements.
- Magnetic scale can maintain performance under severe ambient conditions caused by oil, water or dust to gain required accuracy and signal feedback.

1.1 Specifications:

Pole pitch	1mm	5mm
Accuracy@20℃	±20 μm/m	±(80+15xL) μm (L：Length(Unit: m))
Width	10mm (0mm~+0.2mm)	
Thickness	1.9mm (±0.1mm)	
Maximum scale length	24m	30m
Coefficient of linear thermal expansion	(11±1)×10^{-6}m/K	
Working temperature	0℃~50℃	
Storage temperature	-5℃~70℃	
Protection class	IP67	

1.2 Ordering Code:

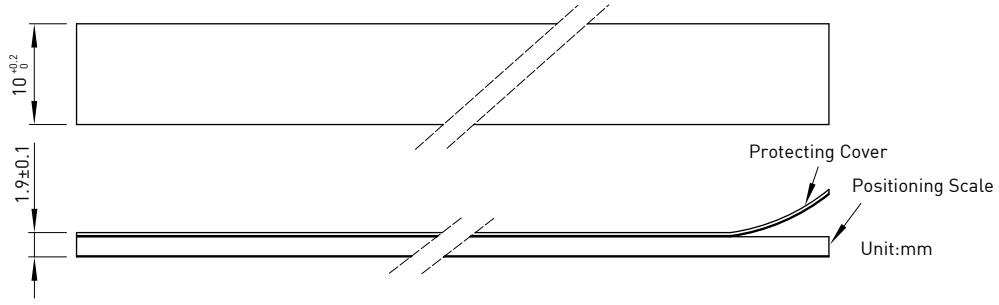
PS - X - XXXXX

PS:Positioning Scale

Pole Pitch
A：5mm
B：1mm

Length(Unit:mm)
10 : 10mm
⋮
30000 : 30000mm

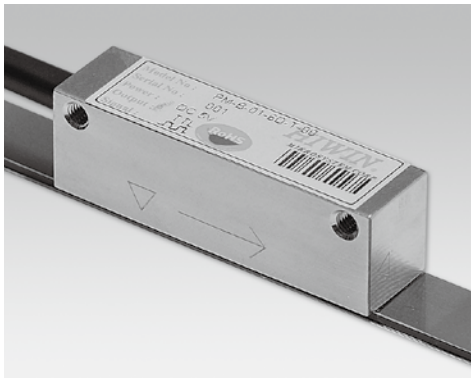
1.3 Dimensions:



Caution!

1. Magnetic scale consists of magnetic substance and should be kept away from strong magnetic filed during installation to prevent a malfunction.
2. Please leave the magnetic field strength 5000 gauss at least 5cm, to prevent the position measurement system from disruption.

2. Positioning Measurement- Tiny Type



Features:

- Tiny shape
- Digital or analog output available
- Simple design and easy-mounting
- Same installation holes as other optical encoders, easy to switch and replace
- Resolution up to 1 μ m.
- Repeatability up to ±2 μ m.
- Available gap up to 0.4mm.

2.1 Specifications:

Pole Pitch	1mm	
Available gap[1]	0.4mm	
Signal format	Analogue	Digital
Output signal	SIN/COS 1Vp-p	5V TTL/RS422
Resolution	1mm	1μm
Repeatability[2]	±3μm	±2μm
Reference signal	1 mm/pulse	
Maximum travel speed	10m/sec	5m/sec
Input voltage	5VDC±5%	
Operating temperature	0˚C~50˚C	
Storage temperature	-5˚C~70˚C	
Protection class	IP67	

Note: (1) Please refer Chap 2.7 for Gap-Repeatability relationship.
(2) The data were measured while gap is 0.1mm.

2.2 Ordering Code:

PM - B- 01 – X X – T - XX

PM:Positioning Measurement

Pole Pitch
B:1mm

Cable Length: (Unit:m; Max 10m)
01:1M
02:2M
⋮
10:10M

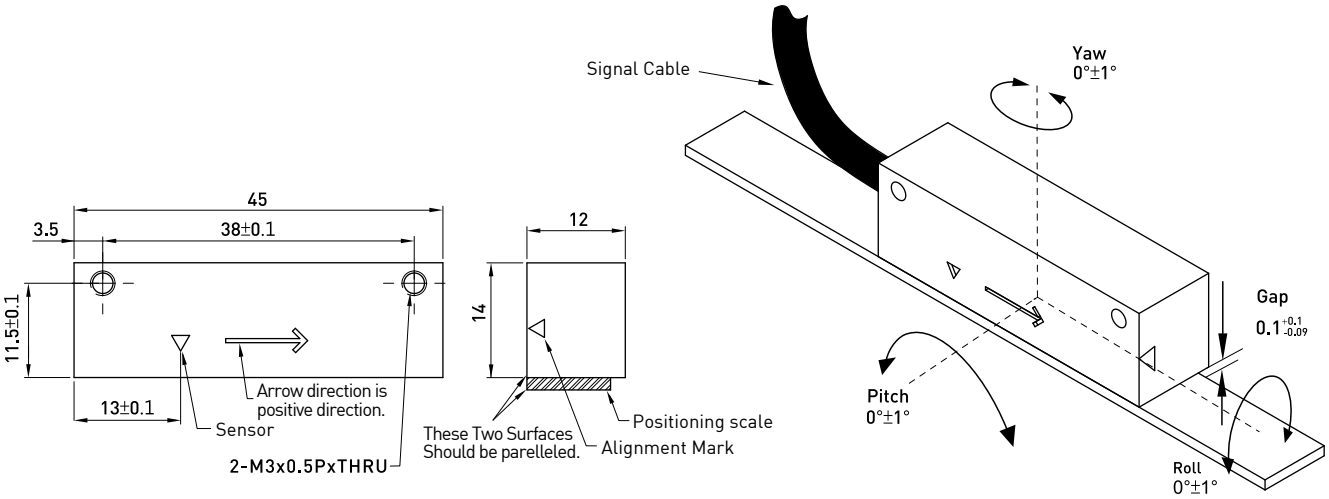
10:Standard
11:With metal tube

Housing:
T:Tiny type

Signal Format:
A:Analogue SIN/COS 1Vp-p
D:Digital 5V RS422/TTL

Connector:
0: Flying lead
1:SCSI 20 Pin
2:SCSI 14 Pin
3:D-Sub 15 Pin
4:17 Pin Circular Plug (M17)
5:SCSI 14 Pin (screw type)
6:D-sub VGA 15 Pin

2.3 Dimensions:



Unit : mm

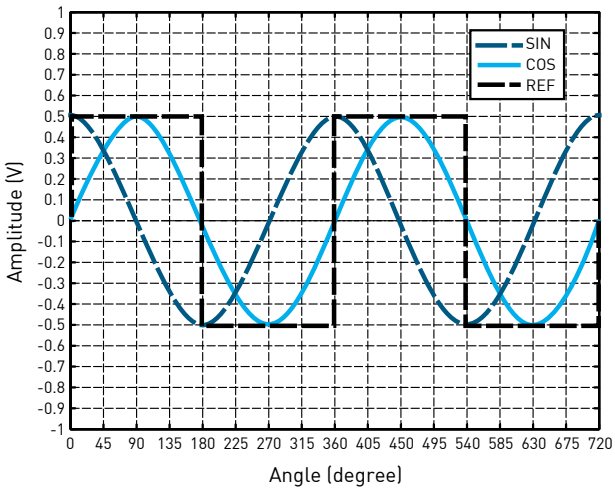
2.4 Pin Assignment:

Function	Signal		Color	Connector (male) (SCSI 14 Pin) Analogue	Connector (male) (SCSI 20 Pin)		Connector (male) (D-Sub 15 Pin)		Connector (male) [1] (17 Pin Circular Plug)	Connector (male) (D-Sub VGA 15 Pin)		Flying Lead
	Analogue	Digital			Analogue	Digital	Analogue	Digital		Analogue	Digital	
Power	5VDC		Brown	1	3	3	4	7	4/5	1	1	Brown
	GND		White	8	2	2	12	2	12/13	2	2	White
Output Signal	SIN+	A+	Green	10	16	4	9	14	9	11	3	Green
	SIN-	A-	Yellow	11	17	5	1	6	1	12	9	Yellow
	COS+	B+	Blue	3	18	6	10	13	10	13	4	Blue
	COS-	B-	Red	4	19	7	2	5	2	14	10	Red
Reference Signal	REF+	Z+	Purple	5	8	8	3	12	3	7	7	Purple
	REF-	Z-	Gray	6	9	9	11	4	11	8	8	Gray
Shield				Case	1/Case		Case		Case	Case		

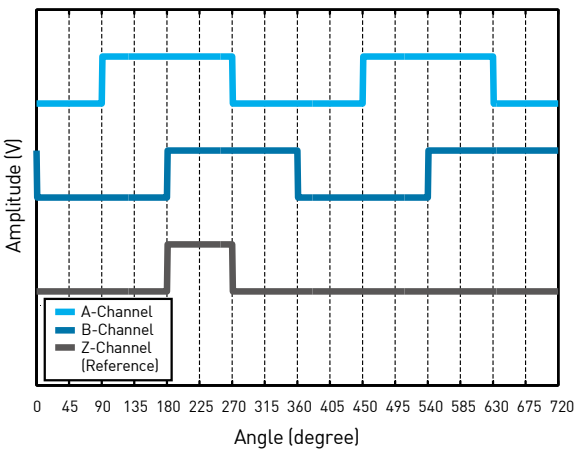
Note: (1)17 Pin Circular Plug; Brnad: INTERCONTEC; P/N:AKU874MR1087004A000

2.5 Signal Format:

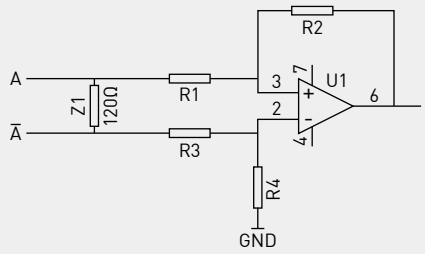
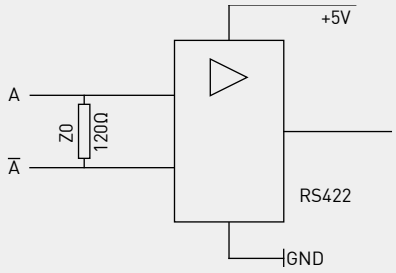
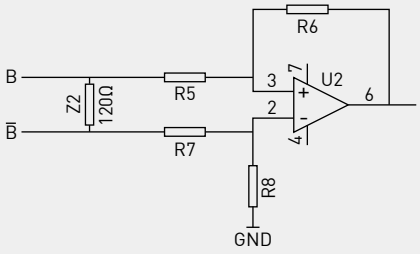
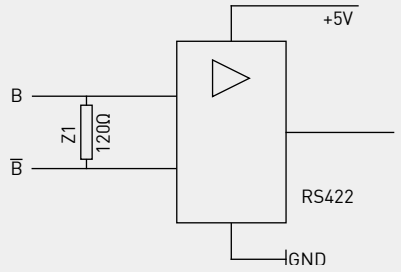
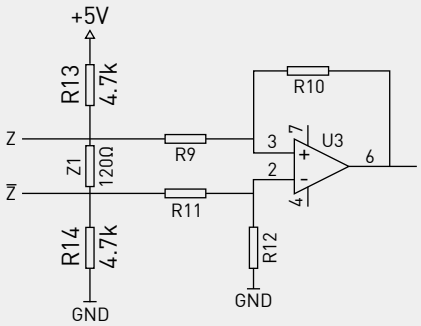
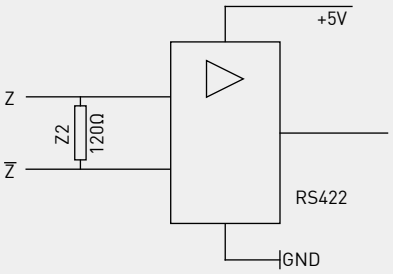
SIN/COS 1Vp-p



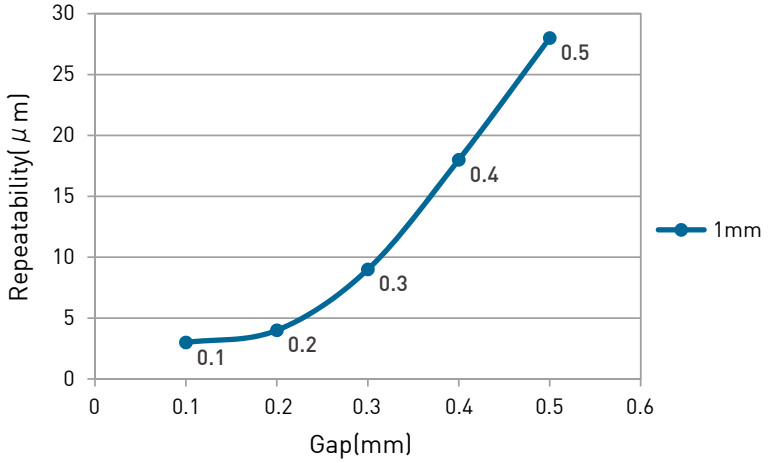
5V TTL/RS422



2.6 Recommended Input Circuit:

SIN/COS 1Vp-p	5V TTL/RS422
A-channel	
	
B-channel	
	
Reference-channel	
	

2.7 Gap-Repeatability Relationship:



3. Positioning Measurement- Standard Type



Features:

- Digital or analog signal output available
- Simple design and easy-mounting
- Same installation holes as other optical encoders, easy to switch and replace
- Waterproof and dustproof
- Optional metal protection tube
- Resolution up to 1 μm.
- Repeatability up to ±2 μm.
- Available gap up to 0.4mm.

3.1 Specifications:

Pole Pitch	1mm	
Available gap[1]	0.4mm	
Signal format	Analogue	Digital
Output signal	SIN/COS 1Vp-p	5V TTL/RS422
Resolution	1mm	1μm
Repeatability[2]	±3μm	±2μm
Reference signal	1 mm/pulse	
Maximum travel speed	10m/sec	5m/sec
Input voltage	5VDC±5%	
Operating temperature	0˚C~50˚C	
Storage temperature	-5˚C~70˚C	
Protection class	IP67	

Note: (1) Please refer Chap 3.7 for Gap-Repeatability relationship.
(2) The data were measured while gap is 0.1mm.

3.2 Ordering Code:

PM - B- 01 - X X - S - XX

PM：Positioning Measurement

Pole Pitch
B：1mm

Cable Length: (Unit:m; Max 10m)
01：1M
02：2M
⋮
10：10M

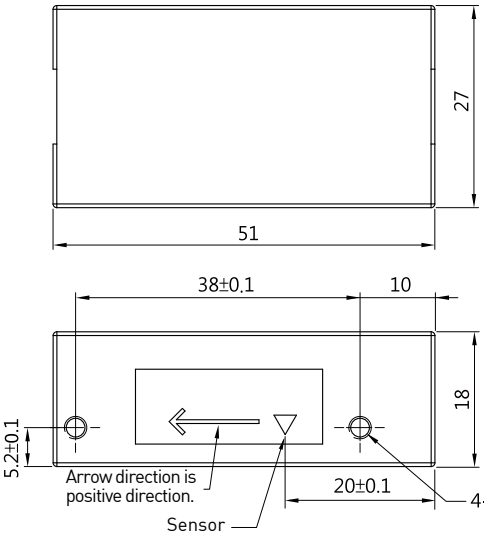
10:Standard
11:With metal tube

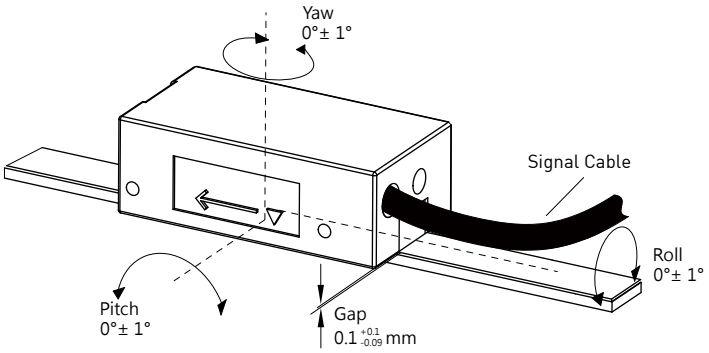
Housing:
S:Standard type

Signal Format:
A:Analogue SIN/COS 1Vp-p
D:Digital 5V RS422/TTL

Connector:
0: Flying lead
1:SCSI 20 Pin
2:SCSI 14 Pin
3:D-Sub 15 Pin
4:17 Pin Circular Plug (M17)
5:SCSI 14 Pin (screw type)
6:D-sub VGA 15 Pin

3.3 Dimensions:





Unit : mm

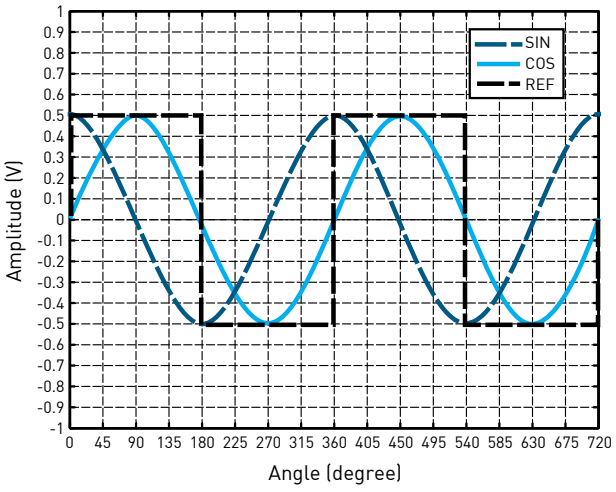
3.4 Pin Assignment:

Function	Signal		Color	Connector (male) (SCSI 14 Pin) Analogue	Connector (male) (SCSI 20 Pin)		Connector (male) (D-Sub 15 Pin)		Connector (male) [1] (17 Pin Circular Plug)	Connector (male) (D-Sub VGA 15 Pin)		Flying Lead
	Analogue	Digital			Analogue	Digital	Analogue	Digital		Analogue	Digital	
Power	5VDC		Brown	1	3	3	4	7	4/5	1	1	Brown
	GND		White	8	2	2	12	2	12/13	2	2	White
Output Signal	SIN+	A+	Green	10	16	4	9	14	9	11	3	Green
	SIN-	A-	Yellow	11	17	5	1	6	1	12	9	Yellow
	COS+	B+	Blue	3	18	6	10	13	10	13	4	Blue
	COS-	B-	Red	4	19	7	2	5	2	14	10	Red
Reference Signal	REF+	Z+	Purple	5	8	8	3	12	3	7	7	Purple
	REF-	Z-	Gray	6	9	9	11	4	11	8	8	Gray
Shield				Case	1/Case		Case		Case	Case		

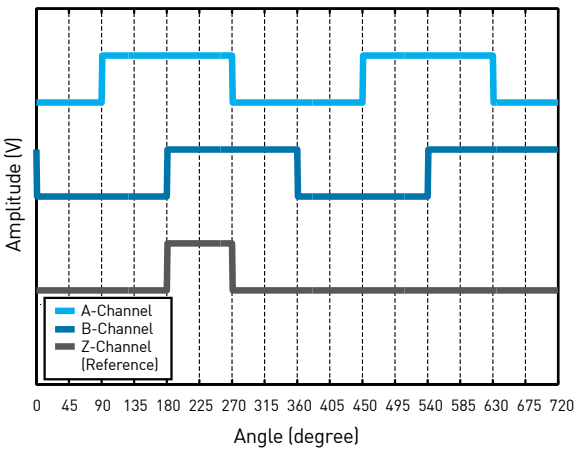
Note: (1)17 Pin Circular Plug; Brnad: INTERCONTEC; P/N:AKU874MR1087004A000

3.5 Signal Format:

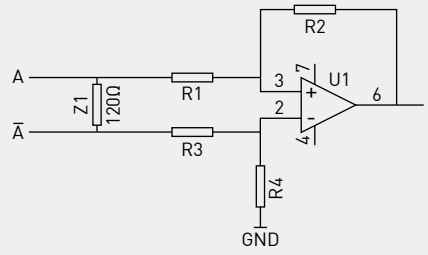
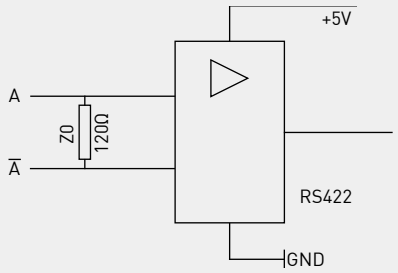
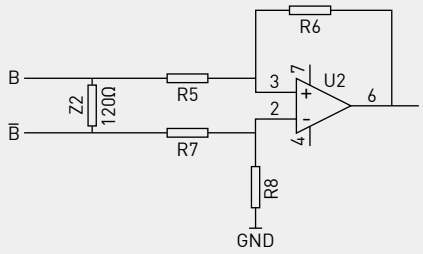
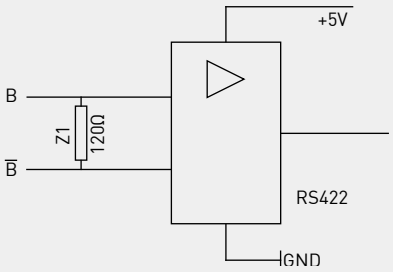
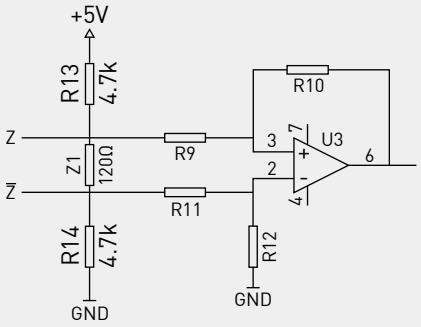
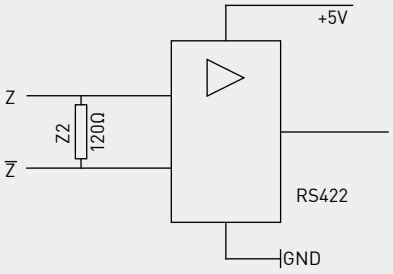
SIN/COS 1Vp-p



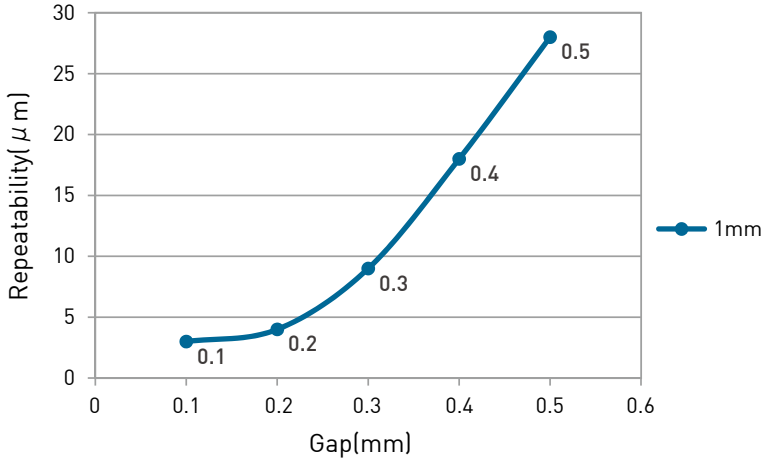
5V TTL/RS422



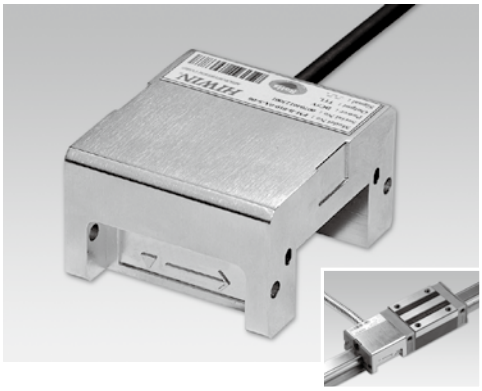
3.6 Recommended Input Circuit:

SIN/COS 1Vp-p	5V TTL/RS422
A-channel	
	
B-channel	
	
Reference-channel	
	

3.7 Gap-Repeatability Relationship:



4. Positioning Measurement- PG Type



Features:

- Digital or analog signal output available
- Compact design and compatible with HIWIN linear guideways
- Cost-effective and reliable
- Optimal solution for automation equipment that requires precise position feedback
- Resolution up to 1 μm.
- Repeatability up to ±2 μm.
- Available gap up to 0.4mm.

4.1 Specifications:

Pole Pitch	1mm	
Available gap[1]	0.4mm	
Signal format	Analogue	Digital
Output signal	SIN/COS 1Vp-p	5V TTL/RS422
Resolution	1mm	1μm
Repeatability[2]	±3μm	±2μm
Reference signal	1 mm/pulse	
Maximum travel speed	10m/sec	5m/sec
Input voltage	5VDC±5%	
Operating temperature	0℃~50℃	
Storage temperature	-5℃~70℃	
Protection class	IP67	

Note: (1) Please refer Chap 4.7 for Gap-Repeatability relationship.
(2) The data were measured while gap is 0.1mm.

4.2 Ordering Code:

PM - B- 01 – X X – G - XX - XX

PM：Positioning Measurement

Pole Pitch
B：1mm

Cable Length: (Unit:m; Max 10m)
01：1M
02：2M
⋮
10：10M

10:Standard
11:With metal tube

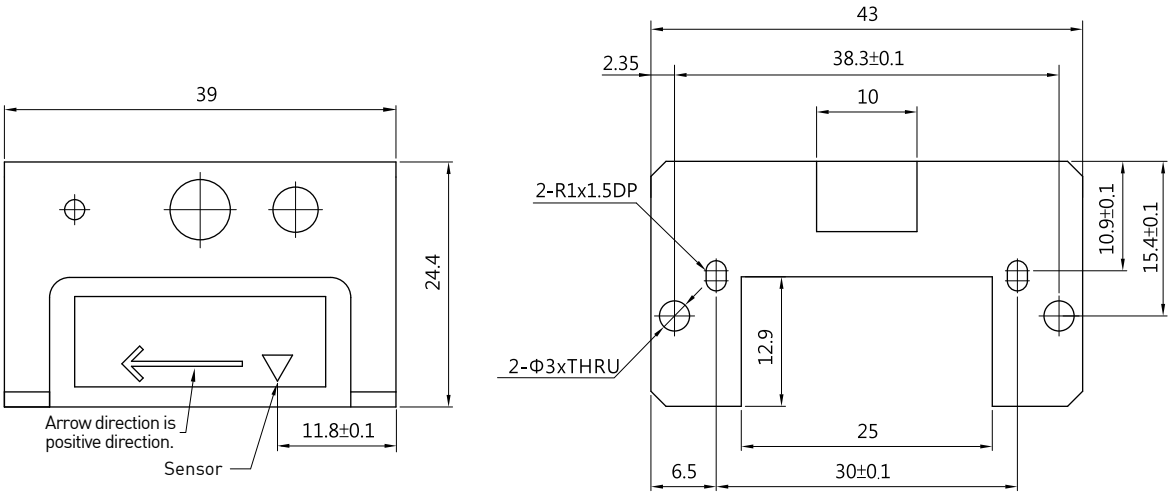
20: for PGH20 guideway system
25: for PGH25 guideway system

Housing:
G:PG type

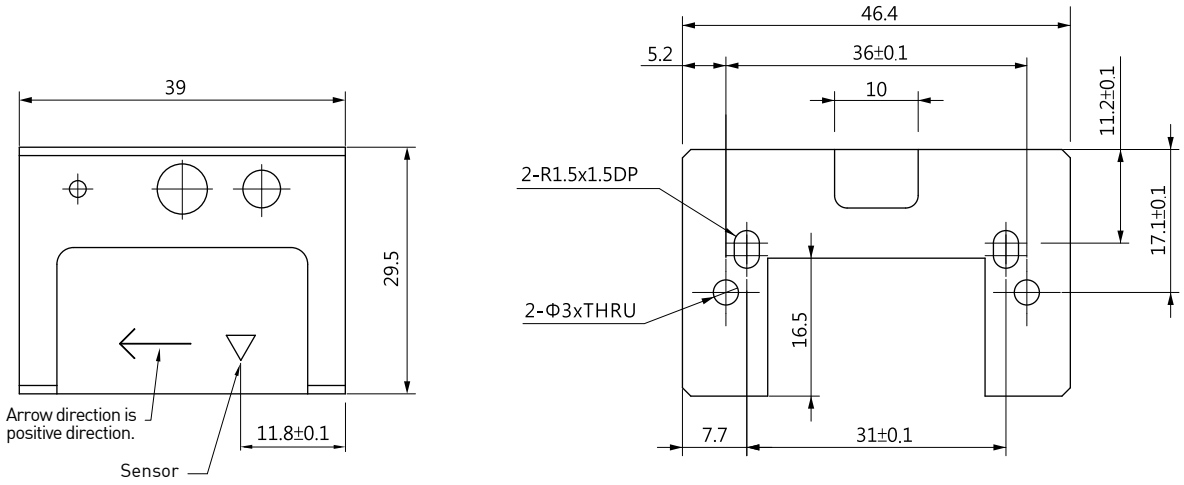
Signal Format:
A:Analogue SIN/COS 1Vp-p
D:Digital 5V RS422/TTL

Connector:
0: Flying lead
1:SCSI 20 Pin
2:SCSI 14 Pin
3:D-Sub 15 Pin
4:17 Pin Circular Plug (M17)
5:SCSI 14 Pin (screw type)
6:D-sub VGA 15 Pin

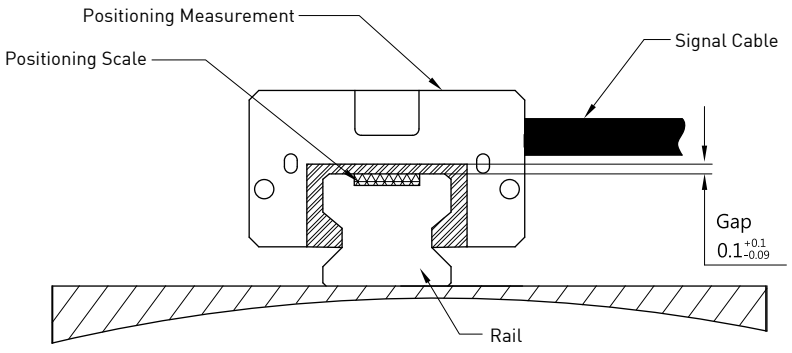
4.3 **Dimensions:**



※Note:These dimensions are suitable for HIWIN PGH20 linear guideway.



※Note:These dimensions are suitable for HIWIN PGH25 linear guideway.



Unit : mm

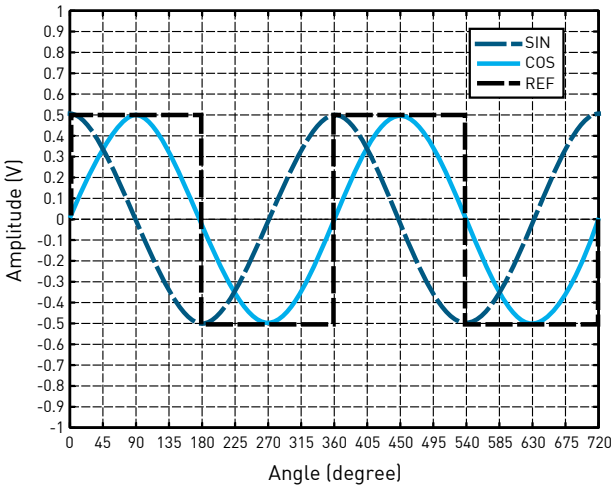
4.4 Pin Assignment:

Function	Signal		Color	Connector (male) (SCSI 14 Pin) Analogue	Connector (male) (SCSI 20 Pin)		Connector (male) (D-Sub 15 Pin)		Connector (male) [1] (17 Pin Circular Plug)	Connector (male) (D-Sub VGA 15 Pin)		Flying Lead
	Analogue	Digital			Analogue	Digital	Analogue	Digital		Analogue	Digital	
Power	5VDC		Brown	1	3	3	4	7	4/5	1	1	Brown
	GND		White	8	2	2	12	2	12/13	2	2	White
Output Signal	SIN+	A+	Green	10	16	4	9	14	9	11	3	Green
	SIN-	A-	Yellow	11	17	5	1	6	1	12	9	Yellow
	COS+	B+	Blue	3	18	6	10	13	10	13	4	Blue
	COS-	B-	Red	4	19	7	2	5	2	14	10	Red
Reference Signal	REF+	Z+	Purple	5	8	8	3	12	3	7	7	Purple
	REF-	Z-	Gray	6	9	9	11	4	11	8	8	Gray
Shield				Case	1/Case		Case		Case	Case		

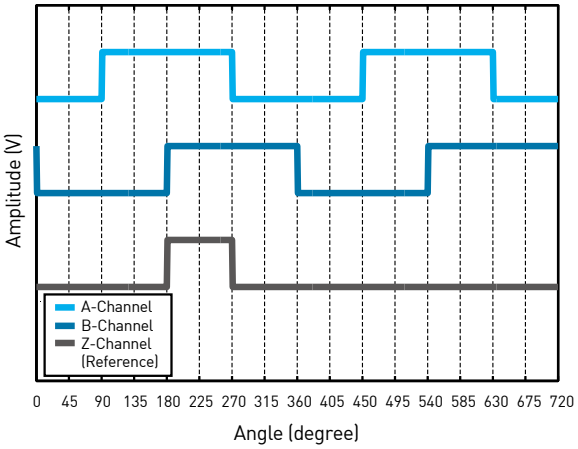
Note: (1)17 Pin Circular Plug; Brnad: INTERCONTEC; P/N:AKU874MR1087004A000

4.5 Signal Format:

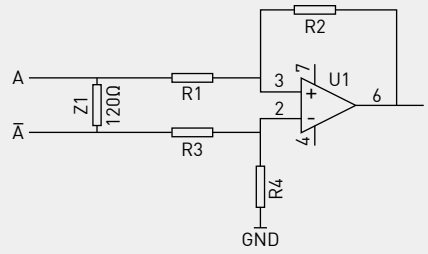
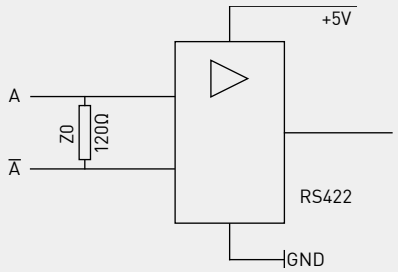
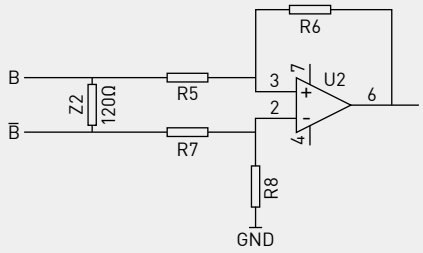
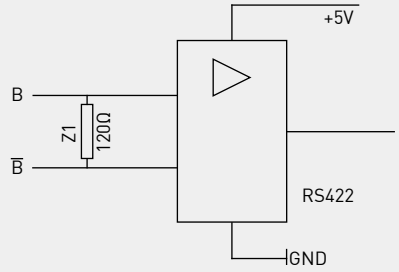
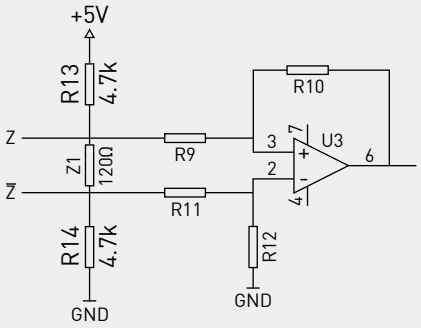
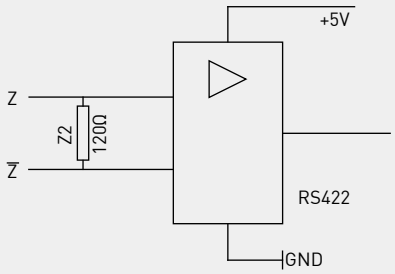
SIN/COS 1Vp-p



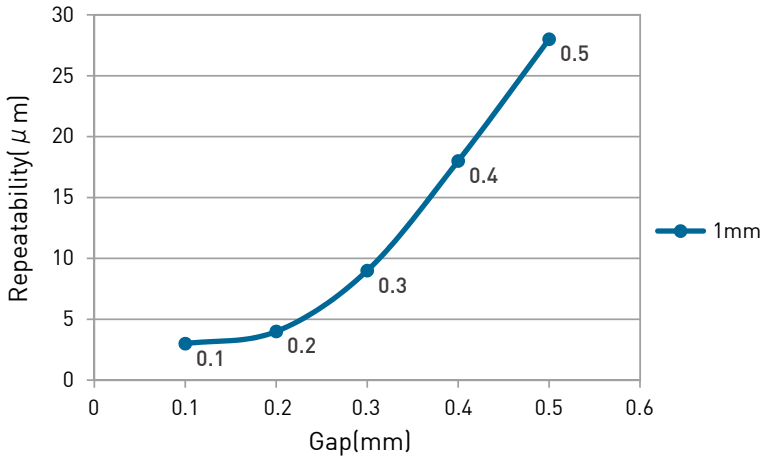
5V TTL/RS422



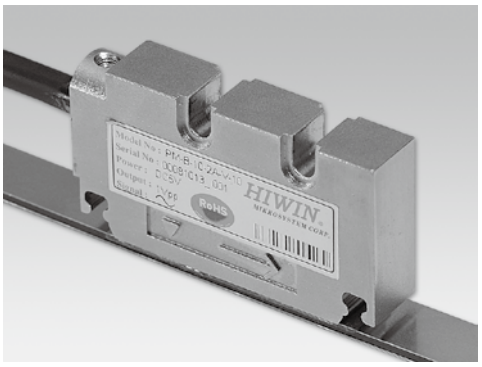
4.6 Recommended Input Circuit:

SIN/COS 1Vp-p	5V TTL/RS422
A-channel	
	
B-channel	
	
Reference-channel	
	

4.7 Gap-Repeatability Relationship:



5. Positioning Measurement- Vertical Type



Features:

- Digital or Analog signal output available
- Vertical shape, optimal for space-saving applications
- Optional metal protection tube
- Resolution up to 1 μm.
- Repeatability up to ±2 μm.
- Available gap up to 4mm.

5.1 Specifications:

Pole Pitch	1mm		5mm	
Available gap[1]	0.4mm		4mm	
Signal format	Analogue	Digital	Digital	
Output signal	SIN/COS 1Vp-p	5V TTL/RS422	5V TTL/RS422	24V/PP
Resolution[3]	1mm	1μm	5μm	5μm
Repeatability[2]	±3μm	±2μm	±10μm	±10μm
Reference signal	2 mm/pulse	1 mm/pulse	5 mm/pulse	
Maximum travel speed	10m/sec	5m/sec	5m/sec	8m/sec
Input voltage	5VDC±5%			24VDC±10%
Operating temperature	0°C~50°C			
Storage temperature	-5°C~70°C			
Protection class	IP67			

Note: (1) Please refer Chap 5.7 for Gap-Repeatability relationship.
(2) The data of 1mm encoder were measured while gap is 0.1mm; And the data of 5mm encoder were measured while gap is 1mm
(3) If you have other request on resolution, please do not hesitate to contact us.

5.2 Ordering Code:

PM - B- 01 – X X – V - X X

PM:
Positioning Measurement

Pole Pitch
A：5mm
B：1mm

Cable Length: (Unit:m; Max 10m)
01：1M
02：2M
⋮
10：10M

	PM-B	PM-A
0	Standard	Standard
1	With metal tube	With metal tube
2		With scraper
3		With metal tube and scraper

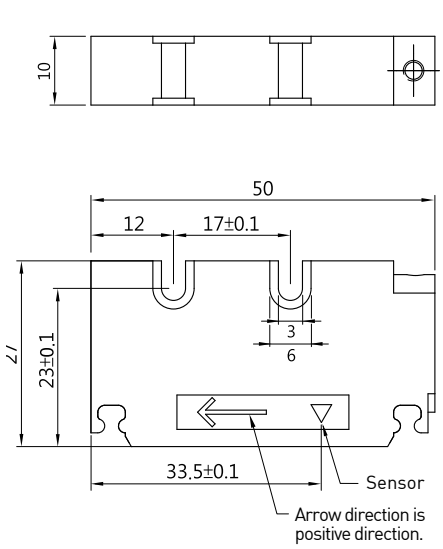
	PM-B	PM-A
1	Analogue: 1Vp-p 1mm	
	Digital: 5V RS422/TTL 1μm	Digital: 5V RS422/TTL 5μm
3	Digital: 24V/PP 1μm	Digital: 24V/PP 5μm
4		Digital: 5V RS422/TTL 10μm
5		Digital: 24V/PP 10μm
7		Digital: 24V/PP 25μm
8		Digital: 24V/PP 100μm

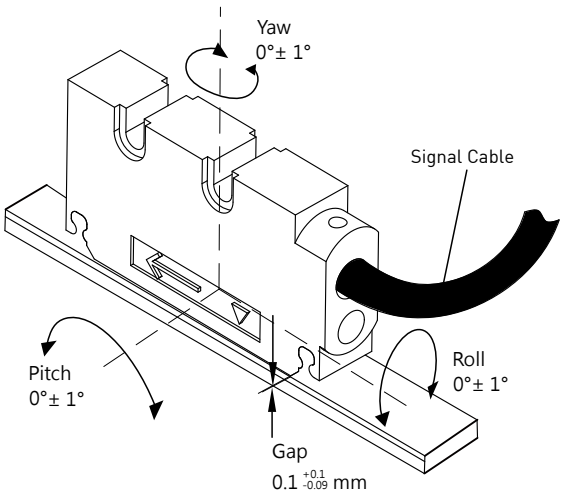
Housing:
V:Vertical type

Signal Format:
A:Analogue SIN/COS 1Vp-p
D:Digital

Connector:
0: Flying lead
1:SCSI 20 Pin
2:SCSI 14 Pin
3:D-Sub 15 Pin
4:17 Pin Circular Plug (M17)
5:SCSI 14 Pin (screw type)
6:D-sub VGA 15 Pin
7:D-sub 9 Pin

5.3 Dimensions:





Unit : mm

5.4 Pin Assignment:

5V TTL/RS422

Function	Signal		Color	Connector (male) (SCSI 14 Pin) Analogue	Connector (male) (SCSI 20 Pin)		Connector (male) (D-Sub 15 Pin)		Connector (male) [1] (17 Pin Circular Plug)	Connector (male) (D-Sub VGA 15 Pin)		Flying Lead
	Analogue	Digital			Analogue	Digital	Analogue	Digital		Analogue	Digital	
Power	5VDC		Brown	1	3	3	4	7	4/5	1	1	Brown
	GND		White	8	2	2	12	2	12/13	2	2	White
Output Signal	SIN+	A+	Green	10	16	4	9	14	9	11	3	Green
	SIN-	A-	Yellow	11	17	5	1	6	1	12	9	Yellow
	COS+	B+	Blue	3	18	6	10	13	10	13	4	Blue
	COS-	B-	Red	4	19	7	2	5	2	14	10	Red
Reference Signal	REF+	Z+	Purple	5	8	8	3	12	3	7	7	Purple
	REF-	Z-	Gray	6	9	9	11	4	11	8	8	Gray
Shield				Case	1/Case		Case		Case	Case		

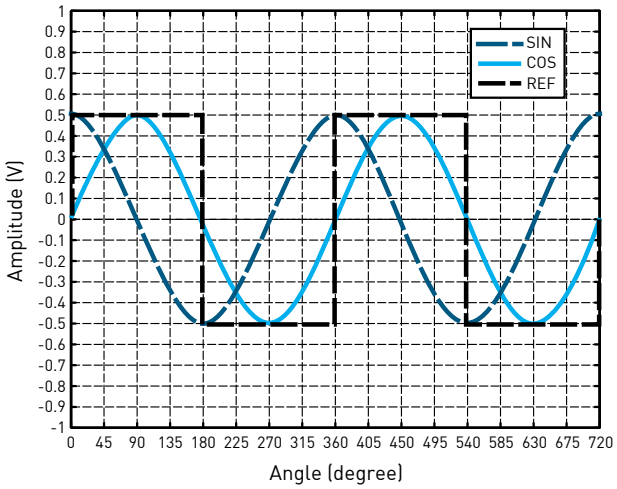
Note: (1)17 Pin Circular Plug; Brnad: INTERCONTEC; P/N:AKU874MR1087004A000

24V/PP

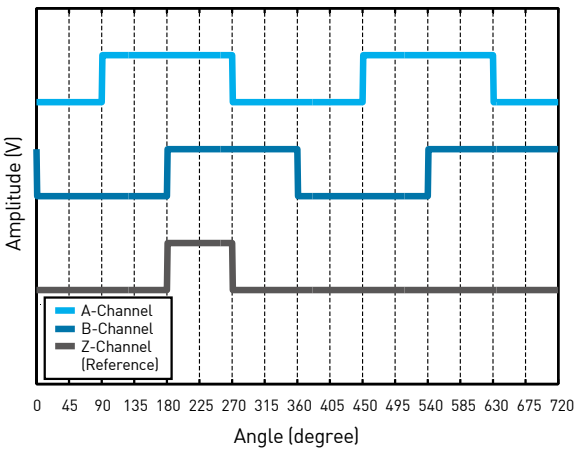
Function	Signal	Color	Connector (male) (D-Sub 9 Pin)	Flying Lead
	Digital		Digital	
Power	24V	Brown	2	Brown
	0V	White	1	White
Output Signal	A(PP)	Green	3	Green
	/A(PP)	Yellow	8	Yellow
	B(PP)	Blue	4	Blue
	/B(PP)	Red	7	Red
Reference Signal	Z+	Purple	5	Purple
	Z-	Gray	9	Gray
Shield			Case	

5.5 Signal Format:

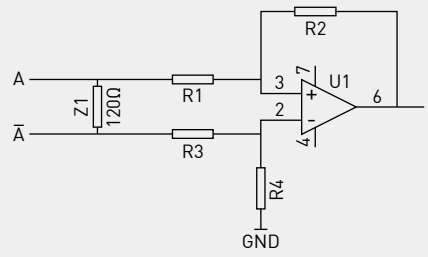
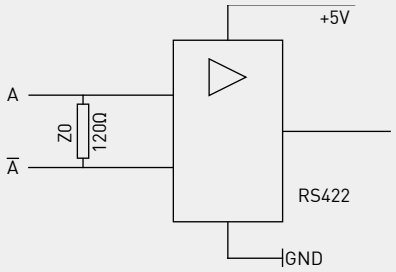
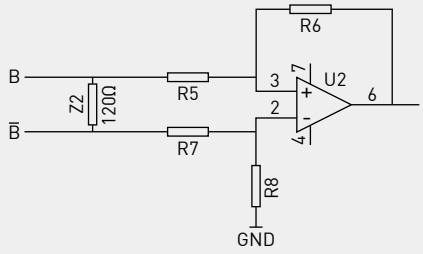
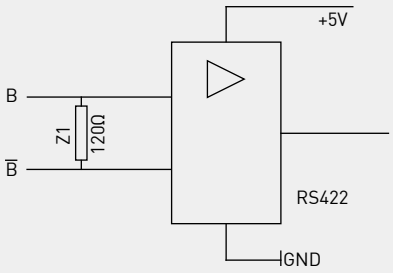
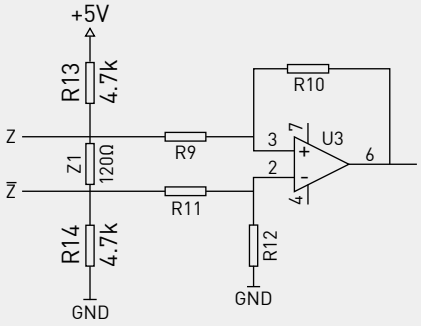
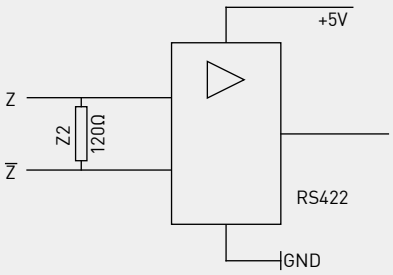
SIN/COS 1Vp-p



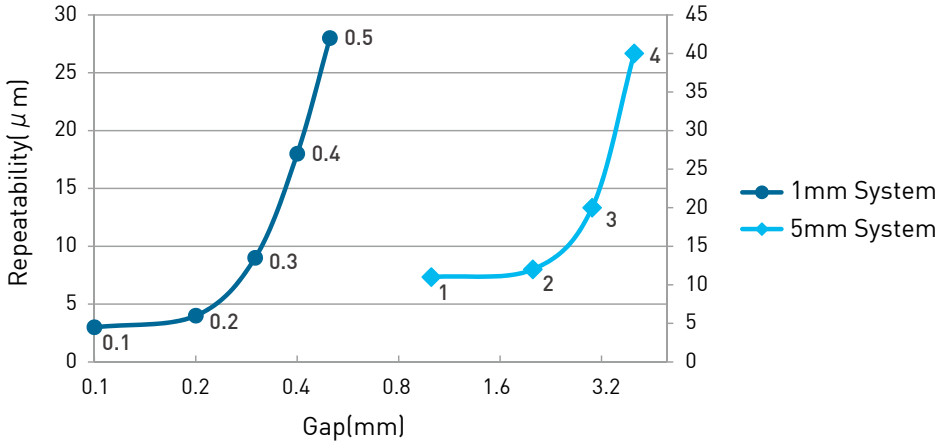
5V TTL/RS422



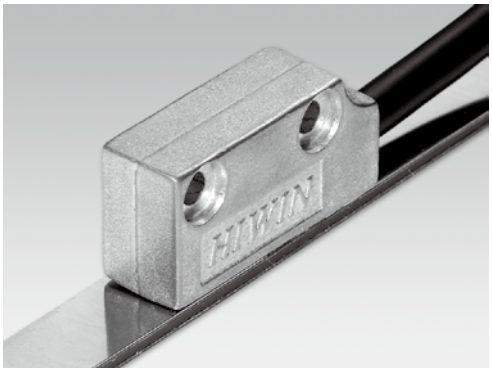
5.6 Recommended Input Circuit:

SIN/COS 1Vp-p	5V TTL/RS422
A-channel	
	
B-channel	
	
Reference-channel	
	

5.7 Gap-Repeatability Relationship:



6. Positioning Measurement- E Type



Features:

- Analog signal output
- Optimal for space-saving applications
- Dustproof and waterproof, up to IP67 protection class
- Resolution is up to 5 μ m while integrating with ST-A.
- Repeatability up to ±10 μ m.
- Available gap up to 4mm.

6.1 Specifications:

Pole Pitch	5mm
Available gap[1]	4mm
Signal format	Analogue
Output signal	SIN/COS 50mVp-p
Resolution	5mm
Repeatability[2]	±10μm
Maximum travel speed	10m/sec
Input voltage	5VDC±5%
Operating temperature	0˚C~50˚C
Storage temperature	-5˚C~70˚C
Protection class	IP67

Note: (1) Please refer Chap 6.5 for Gap-Repeatability relationship.
(2) The data were measured while gap is 1mm.

6.2 Ordering Code:

PM - A- 01 – X X – E - XX

PM : Positioning Measurement

Pole Pitch
A : 5mm

Cable Length: (Unit:m; Max 10m)
01 : 1M
02 : 2M
⋮
10 : 10M

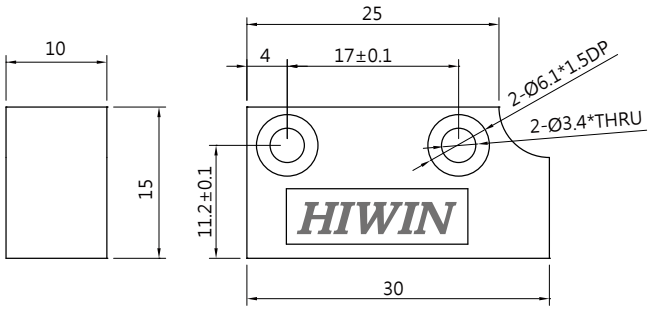
00:Standard

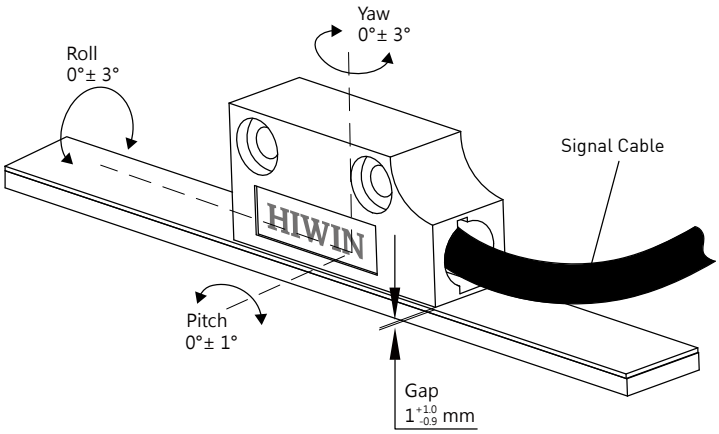
Housing:
E:E type

Signal Format:
A:Analogue SIN/COS 50mVp-p

Connector:
2:SCSI 14 Pin
5:SCSI 14 Pin (screw type)
6:D-sub VGA 15 Pin

6.3 Dimensions:

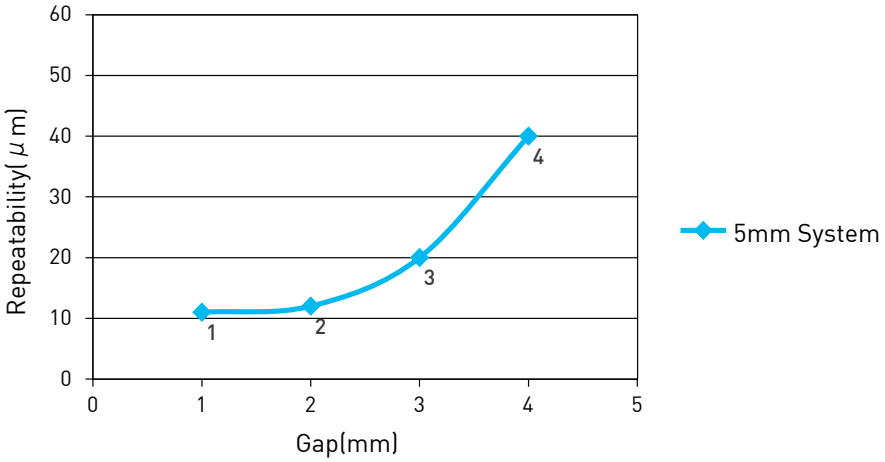




6.4 Pin Assignment:

Function	Signal	Color	Connector (male) (SCSI 14 Pin)	Connector (male) (D-Sub VGA 15 Pin)
	Analogue		Analogue	Analogue
Power	5V	Brown	1	1
	0V	White	8	2
Output Signal	SIN+	Green	10	11
	SIN-	Yellow	11	12
	COS+	Blue	3	13
	COS-	Red	4	14
Shield			Case	Case

6.5 Gap-Repeatability Relationship:



7. Positioning Measurement- H Type



Features:

- Analog signal output
- Compact design used with Hiwin linear guideways
- Optimal for space-saving applications
- Easy installation
- Resolution is up to 5 μ m when integrating with ST-A.
- Repeatability up to ±10 μ m.
- Available gap up to 4mm.

7.1 規格：

Pole Pitch	5mm
Available gap[1]	4mm
Signal format	Analogue
Output signal	SIN/COS 50mVp-p
Resolution	5mm
Repeatability[2]	±10μm
Maximum travel speed	10m/sec
Input voltage	5VDC±5%
Operating temperature	0˚C~50˚C
Storage temperature	-5˚C~70˚C
Protection class	IP67

Note: (1) Please refer Chap 7.5 for Gap-Repeatability relationship.
(2) The data were measured while gap is 1mm.

7.2 Ordering Code:

PM - A- 01 – X X – H - XX

PM : Positioning Measurement

Pole Pitch
A : 5mm

Cable Length: (Unit:m; Max 10m)
01 : 1M
02 : 2M
⋮
10 : 10M

20: for PGH20 guideway system
25: for PGH25 guideway system
30: for PGH30 guideway system
35: for PGH35 guideway system
45: for PGH45 guideway system

Housing:
H:H type

Signal Format:
A:Analogue SIN/COS 50mVp-p

Connector:
2:SCSI 14 Pin
5:SCSI 14 Pin (screw type)
6:D-sub VGA 15 Pin

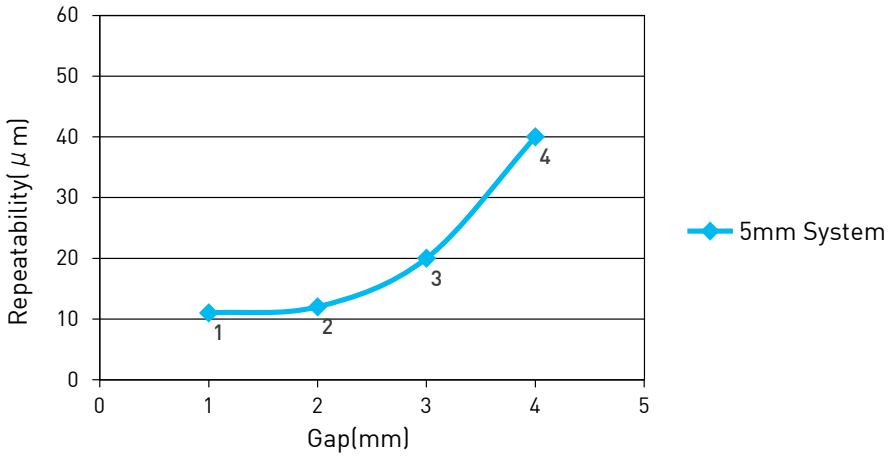
7.3 Dimensions:

This type is used with HIWIN's guideway, please refer Page 181 to 185 of HIWIN Technology's catalogue for further details :
http://www.hiwin.tw/download/tech_doc/gw/Linear%20Guideway-(E).pdf

7.4 Pin Assignment:

Function	Signal	Color	Connector (male) (SCSI 14 Pin)	Connector (male) (D-Sub VGA 15 Pin)
	Analogue		Analogue	Analogue
Power	5V	Brown	1	1
	0V	White	8	2
Output Signal	SIN+	Green	10	11
	SIN-	Yellow	11	12
	COS+	Blue	3	13
	COS-	Red	4	14
Shield			Case	Case

7.5 Gap-Repeatability Relationship:



II. Signal Translator



ST-A

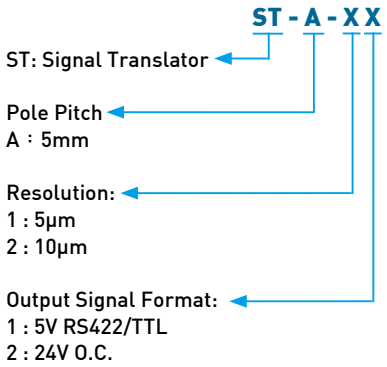
Features:

- Converting an analog signal input into a digital signal output
- Output signal 5V RS422/TTL or open collector
- Suitable for precise position feedback to a PC or PLC connection

1. Specifications:

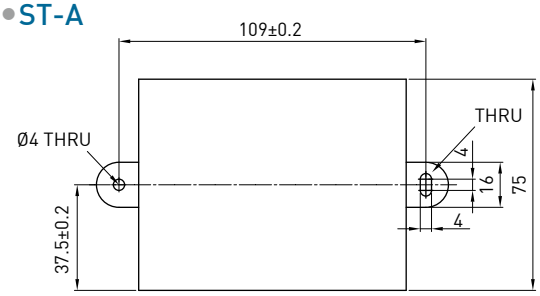
Type	ST-A			
Pole Pitch	5mm			
Input signal	SIN/COS 50mVp-p			
Output signal	5V RS422/TTL		24V O.C.	
Resolution	5μm	10μm	5μm	10μm
Repeatability	±10μm	±20um	±10μm	±20um
Maximum output frequency	64KHz	32KHz	64KHz	32KHz
Maximum travel speed	1.5m/sec			
Input voltage	5VDC±5% /0.5A			
Operating temperature	0˚C~50˚C			
Storage temperature	-5˚C~70˚C			
Protection class	IP43			

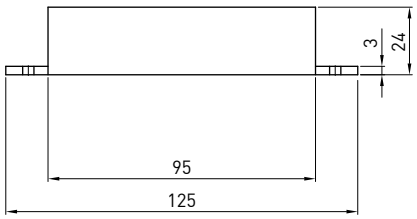
2. Ordering Code:



3. Dimensions:

ST-A



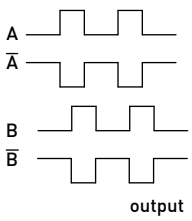


4. Pin Assignment:

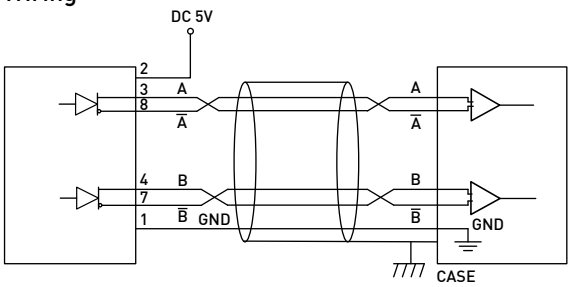
ST-A-□1(5V RS422/TTL)

D-sub 9 pin definition for signal output connector

Function	Signal	Connector(male) (D-sub 9 pin)	I/O
Power	GND	1	I
	DC5V	2	
	SGND	6	
Output Signal	A+	3	O
	A-	8	
	B+	4	
	B-	7	



Wiring



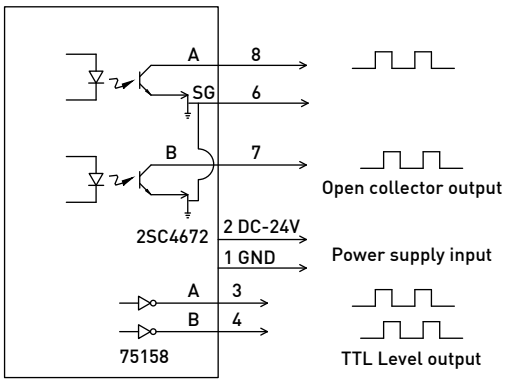
ST-A signal translator

Differntial signal input to drive

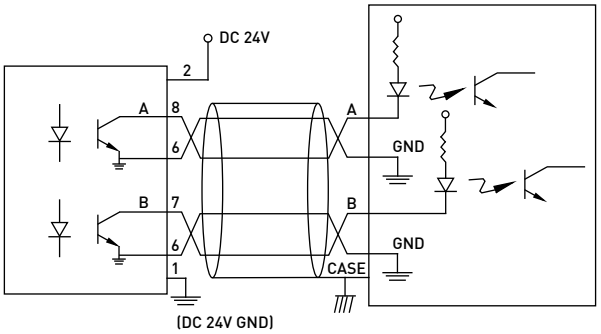
ST-A-□2(24V O.C.)

D-sub 9 pin definition for signal output connector

Function	Signal	Connector(male) (D-sub 9 pin)	I/O
Power	GND	1	I
	DC24V	2	
	SGND	6	
Output Signal	A(open collector)	8	O
	B(open collector)	7	
	A(TTL level)	3	
	B(TTL level)	4	



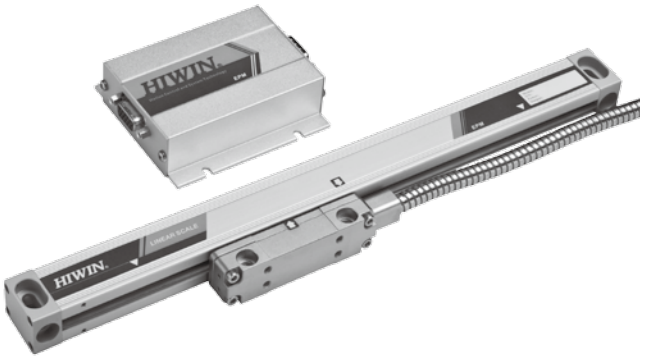
Wiring



ST-A signal translator

PLC Counter signal

III. High-precision Enclosed Positioning Measurement System



Features:

- Magnetic sensing mechanism
- Accuracy: (5+5ML/1000) μ m
- Resolution up to 1 μ m
- With single index signal
- Simple design and easily mounted
- Superior environmental susceptibility agaist oil, water and dust.
- IP65 protection class.

1. Specifications:

Measuring length (ML,unit:mm)		50、100、150、200	250、300、350、400、450、500、550、600、650、750、850、950、1050
Maximum travel(Unit: mm)		ML+104	ML+120
Overall length(Unit: mm)		ML+12	ML+28
Accuracy@20˚C		(5+5ML/1000) μ m	
		Within Measuring Length is 30 μ m	
Resolution		1μm	
Signal format		Digital	
Output signal		5V TTL/RS422	
Reference point		Standard: Center point/Edge(at 25 mm away from edge of ML)	
		User-selected point	
Maximum travel speed		1.2m/sec	
Mounting parallelism		±0.1mm	
Input voltage		5VDC±5% / 0.23A	
Coefficient of linear thermal expansion		(11.8±0.6)×$10^{(-6)}$m/K	
Operating temperature		0˚C~50˚C	
Storage temperature		-20˚C~60˚C	
Protection class	Readhead	IP67	
	Translator	IP30	
Vibration resistance (50Hz～2000Hz)		150m/S^2(EN60068-2-6)	
Impact resistance(11ms)		1000m/S^2(EN60068-2-27)	

2. Ordering Code:

EPM - 1050- M – H1 – 7 - 1

EPM:
Enclosed Positioning Measurement

Measuring Length
0050：50mm
0100：100mm
0150：150mm
0200：200mm
0250：250mm
0350：350mm
0400：400mm
0450：450mm
0500：500mm
0550：550mm
0600：600mm
0650：650mm
0750：750mm
0850：850mm
0950：950mm
1050：1050mm

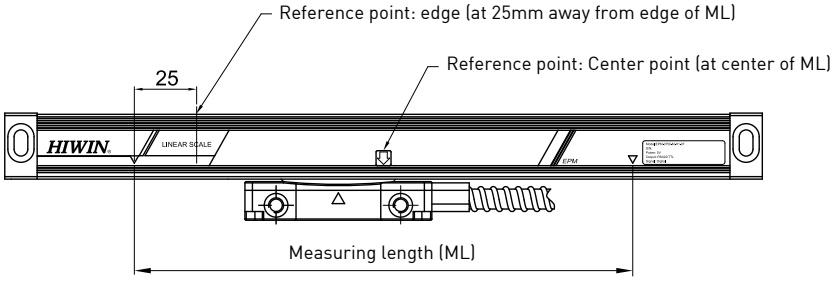
Reference Point: (Note1)
M: Center point
S: Edge(at 25 mm away from edge of ML)
C: User-selected point

Cable Outlet (Note2)
1:With interconnected cable, round waterproof connector (IP68)
2:With interconnected cable, D-sub VGA 15 pin
3:Directly connected cable, D-sub VGA 15 pin

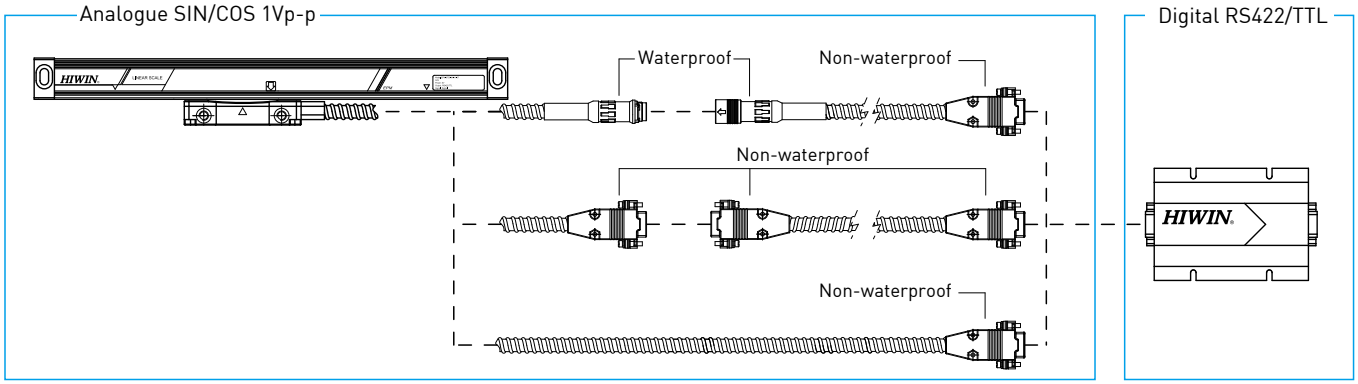
Cable Length (Unit:m)
3 : 3m
5 : 5m
7 : 7m

Accuracy-Resolution-Output signal:
H1:(5+5ML/1000) μ m-1 μ m-5V TTL/RS422
D1:Within measuring length is 30 μ m-1 μ m-5V TTL/RS422
※ML:Measuring Length

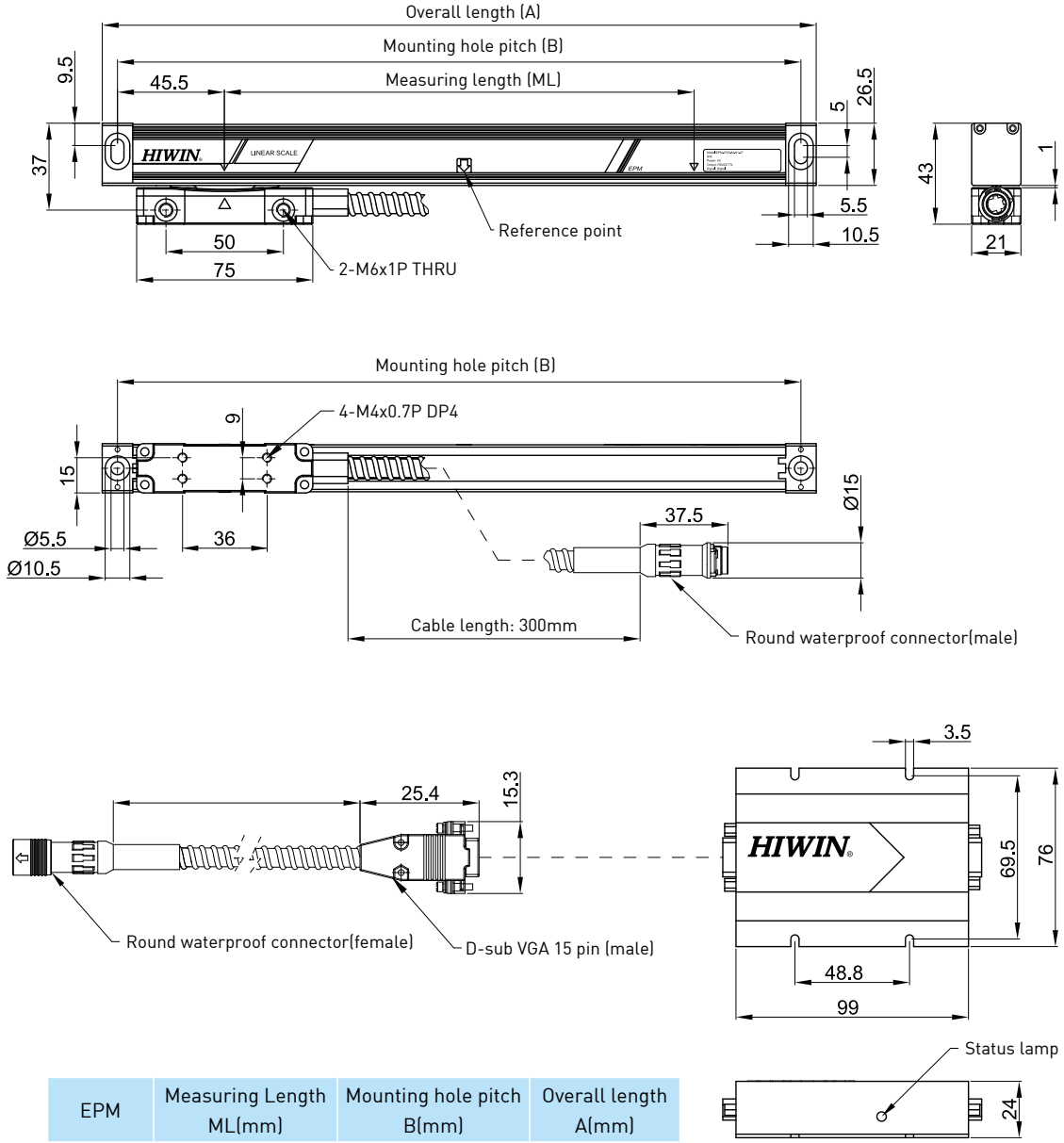
※Note1: Reference point



※Note2: Cable outlet



3. Dimensions:



EPM	Measuring Length ML(mm)	Mounting hole pitch B(mm)	Overall length A(mm)
EPM-0050	50	141	154
EPM-0100	100	191	204
EPM-0150	150	241	254
EPM-0200	200	291	304
EPM-0250	250	357	370
EPM-0300	300	407	420
EPM-0350	350	457	470
EPM-0400	400	507	520
EPM-0450	450	557	570
EPM-0500	500	607	620
EPM-0550	550	657	670
EPM-0600	600	707	720
EPM-0650	650	757	770
EPM-0750	750	857	870
EPM-0850	850	957	970
EPM-0950	950	1057	1070
EPM-1050	1050	1157	1170

4. Pin Assignment:

Function	Signal		Color	Connector (male) (D –sub VGA 15 pin)	Connector (male) (D –sub 9 pin)
	Analogue	Digital		Analogue	Digital
Power	5V		Brown	1	2
	0V		White	2	1
Output Signal	SIN+	A+	Green	11	3
	SIN-	A-	Yellow	12	8
	COS+	B+	Blue	13	4
	COS-	B-	Red	14	7
Reference Signal	REF+	Z+	Purple	7	5
	REF-	Z-	Gray	8	9
Fault Detection Signal	FLT	-	-	-	6
Shield	-	-	-	Case	Case

IV. High Efficiency Counter

1. Micro LCD Counter



Features:

- LCD display, using 2 AA batteries
- Embedded head, suitable for cutting and wood-processing machines
- Parameter save function
- Extremely compact, easily mounted, and cost-effective.

1.1 Specifications:

Display		8 digits LCD display with +/- sign
Accuracy@20℃		±(80+15xL) μm (L: Length (unit: m))
Resolution		5μm
Repeatability[1]		±10μm
Operating speed		3m/sec (maximum 2G acceleration)
Input voltage		commercial AA No.3 batteries × 2
Battery life[2]		1 year by setting speed at 1.5m/s
Operating Temperature		0℃~50℃
Storage Temperature		-5℃~55℃
Protection class	Scale/Readhead	IP67
	Counter	IP43
Function	General	Set reading direction
		Unit conversion (mm/inch/°)
		Absolute/Incremental position(INC/ABS) selection
		Set display digits
		Set reference points
		5 sets of maximum velocity settings (default: 1.5m/s)
	Programmable	Anglular measurement radius setting (minimum: 50mm)
		5 sets of programmable compensation reference points
		set programmable coefficient ratio
	Display	Indicate installed condition
		Power monitor and display
	Other	Keypad lock
		Parameter save function
		5 sets of independant incremental counters for relative measurement.

Note: (1) The data were measured while gap is 1mm.
(2) Battery capacity is 2200mAh(ambient temperature: 20+/-5℃).
Capacity performance will vary under different environmental temperatures.

1.2 Ordering Code:

UPLD - A - XX - X - XX

UPLD:Micro LCD Counter

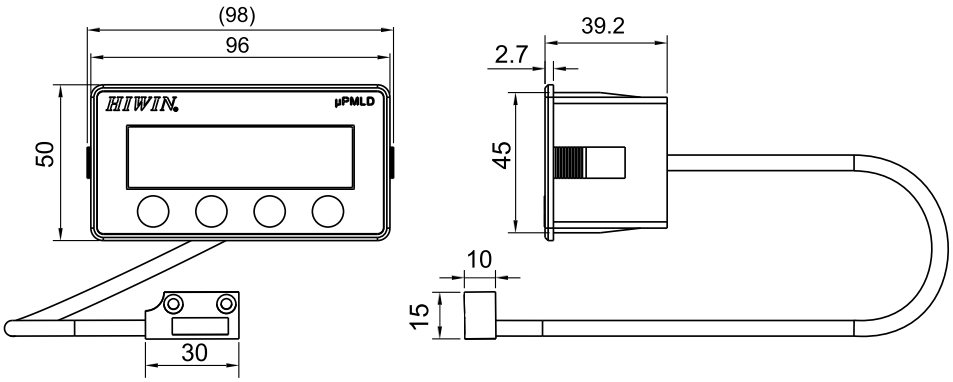
Pole Pitch
A：5mm

Cable Length: (Unit:m; Max 3m)
01：1M
02：2M
⋮
03：3M

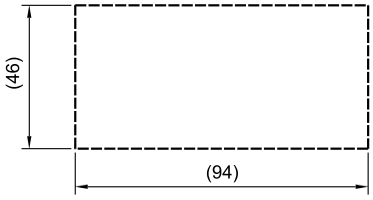
00:Standard (E type readhead)
20: for PGH20 guideway system
25: for PGH25 guideway system
30: for PGH30 guideway system
35: for PGH35 guideway system
45: for PGH45 guideway system

Housing:
E:E type
H:H type

1.3 Dimensions:



Reference design dimensions for fram panel cut-out



Unit: mm

2. LCD Counter System



Features:

- LCD display, using 2 AA batteries
- Embedded head, suitable for cutting and wood-processing machines
- Parameter save function
- Extremely compact, easily mounted, and cost-effective.

2.1 Specifications:

Display		8 digits LCD display with +/- sign
Accuracy@20˚C		±(80+15xL) μm (L: Length (unit: m))
Resolution		5μm
Repeatability[1]		±10μm
Operating speed		3m/sec (maximum 2G acceleration)
Input voltage		commercial AA No.3 batteries × 2
Battery life[2]		1 year by setting speed at 1.5m/s
Operating Temperature		0˚C~50˚C
Storage Temperature		-5˚C~70˚C
Protection class	Scale/Readhead	IP67
	Counter	IP43
Function	General	Set reading direction
		Unit conversion (mm/inch/°)
		Absolute/Incremental position(INC/ABS) selection
		Set display digits
		Set reference points
		5 sets of maximum velocity settings (default: 1.5m/s)
	Programmable	Anglular measurement radius setting (minimum: 50mm)
		5 sets of programmable compensation reference points
		set programmable coefficient ratio
	Display	Indicate installed condition
		Power monitor and display
	Other	Keypad lock
		Parameter save function
		5 sets of independant incremental counters for relative measurement.

Note: (1) The data were measured while gap is 1mm.
(2) Battery capacity is 2200mAh(ambient temperature: 20+/-5˚C).
Capacity performance will vary under different environmental temperatures.

2.2 Ordering Code:

PMLD - A - XX - X - XX

PMLD:LCD Counter System

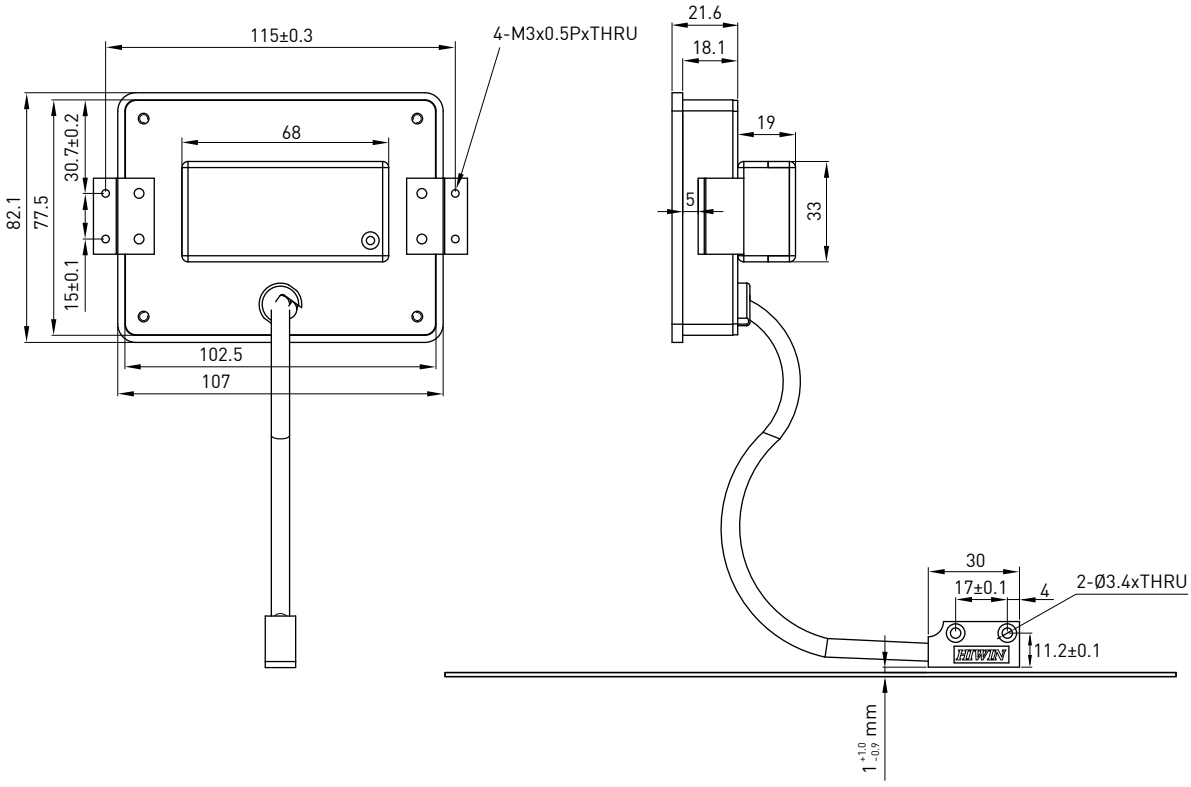
Pole Pitch
A：5mm

Cable Length: (Unit:m; Max 3m)
01：1M
02：2M
⋮
03：3M

00:Standard (E type readhead)
20: for PGH20 guideway system
25: for PGH25 guideway system
30: for PGH30 guideway system
35: for PGH35 guideway system
45: for PGH45 guideway system

Housing:
E:E type
H:H type

2.3 Dimensions:



Unit: mm

3. High Efficiency Single Axis Counter



Features:

- LED display
- Can be used with other digital optical encoders
- Consists of multiple output interfaces
- Suitable for cutting and wood-processing machines
- Compact design and easy installation

3.1 Specifications:

Display		8 digit LED display
Resolution		1μm、2μm、5μm、10μm
Input signal		analogue: SIN/COS 1Vp-p; speed 2m/s, 2kHz
		digital: 5V TTL/RS422; speed 2m/s, 0.5MHz
Input voltage		5VDC±5% 1A (AC100～240V/ 5VDC)
Relay contact rating		24VDC/2A
Operating Temperature		0˚C~50˚C
Storage Temperature		-5˚C~70˚C
Protection class	Display	IP43
Function	General	Set reading direction
		Unit conversion (mm/inch)
		Absolute/Incremental position(INC/ABS) selection
		Set display digits (mm：0.001, 0.01, 0.1, inch：0.000001, 0.00001, 0.0001, 0.001)
		Input signal conversion (Digital/Analogue)
		Coordinate zero setting and auto-center (1/2) function
	Other	8 sets of preset function
		4 sets of relay output function
		Instant power failure memory
		RS-232 output (optional)

3.2 Ordering Code:

PMED – H1 - 1 - XX - X

PMED:
High Efficiency Single Axis Counter

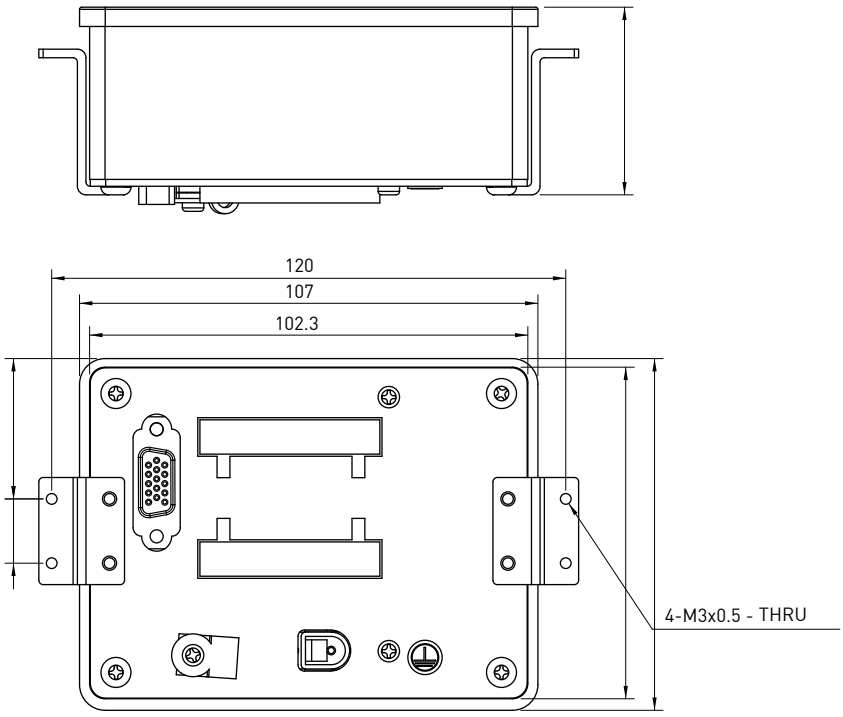
H1:H1 display(Plug type A,flat blade)
H2:H1 display(Plug type C,Europlug)

1: 1 axis display

0:with I/O without RS-232
1:with I/O with RS-232
2:without I/O without RS-232 (standard)
3:without I/O with RS-232

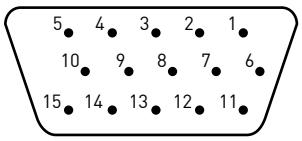
00: for HIWIN 1mm positioning measurement system (analogue/digital)
A1: for HIWIN 5mm E type or H type positioning measurement system

3.3 Dimensions:



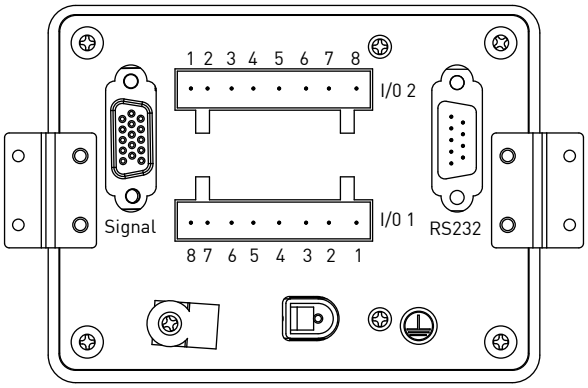
Unit: mm

3.4 Input signal descriptions:



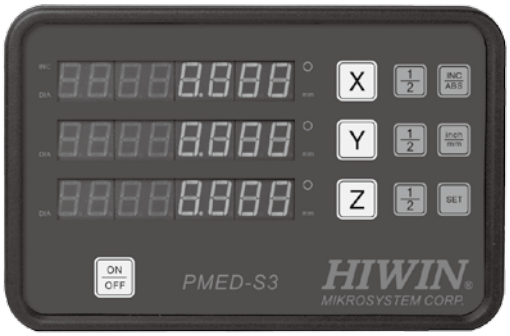
PIN	Definition	PIN	Definition	PIN	Definition
1	+5V	6	NC	11	SIN+(Analogue)
2	GND	7	Z+	12	SIN-(Analogue)
3	A+(Digital)	8	Z-	13	COS+(Analogue)
4	B+(Digital)	9	A-(Digital)	14	COS-(Analogue)
5	NC	10	B-(Digital)	15	NC

3.5 Relay output signal descriptions:



PIN	I/O 1	I/O 2
1	N.C.	N.C.
2		
3	N.C.	N.C.
4		
5	Relay 0(CH-0)	Relay 2(CH-2)
6		
7	Relay 1(CH-1)	Relay 3(CH-3)
8		

4. Multi-Axis Counter



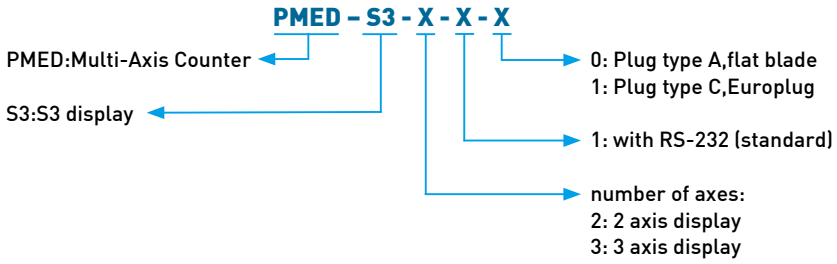
Features:

- LED display, high brightness
- Easy operation, suitable for cutting machines, traditional gantry milling machines, and programmable drilling machines
- Compact design and easy installation

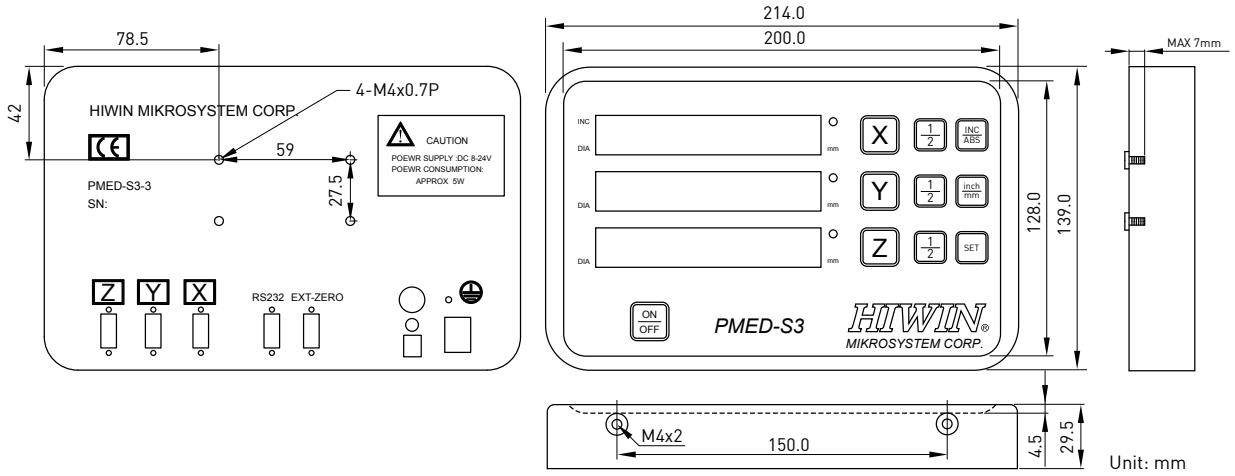
4.1 Specifications:

Display		8 digit LED display
Resolution		0.1μm、0.2μm、0.5μm、1μm、2μm、5μm、10μm、20μm、50μm
Input signal		Digital：5V RS422/TTL
Input voltage		8~30VDC±5% / 0.08A
Operating Frequency		＜1.5MHz
Operating Temperature		0˚C~50˚C
Storage Temperature		-5˚C~70˚C
Protection class	Display	IP43
Function	General	ON/OFF function
		Coordinate Zero setting
		Unit conversion (mm/inch)
		Absolute/Incremental position(INC/ABS) selection
		Set display digits (0.0001, 0.0002, 0.0005, 0.001, 0.002, 0.005, 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1, 5, 10)
		Radius/diameter selection (RAD/DIA)
	Other	auto-center (1/2) function
		Linear error compensation
		Instant power failure memory
		RS-232 output

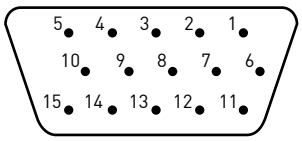
4.2 Ordering Code:



4.3 Dimensions:



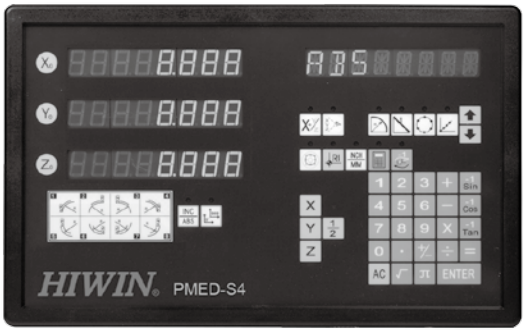
4.4 Input signal descriptions:



PIN	Definition	PIN	Definition	PIN	Definition
1	+5V	6	FG	11	NC
2	GND	7	NC	12	NC
3	A+	8	NC	13	NC
4	B+	9	NC	14	NC
5	ABS-	10	NC	15	NC

Note: NC: No Connection
FG: Frame Ground

5. High Efficiency Multi-Axis Counter



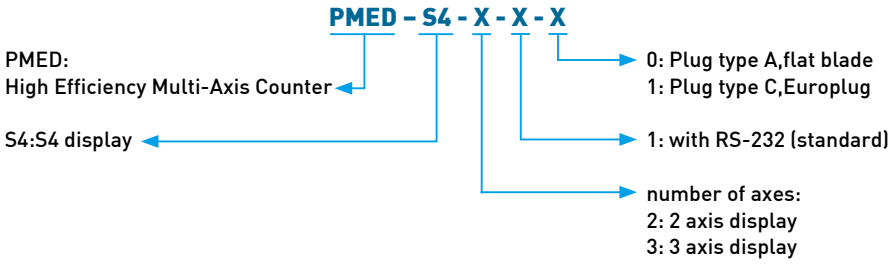
Features:

- LED display
- Suitable for CNC machine centers, gantry machine centers, milling machines and drilling machines
- Easy operation and installation

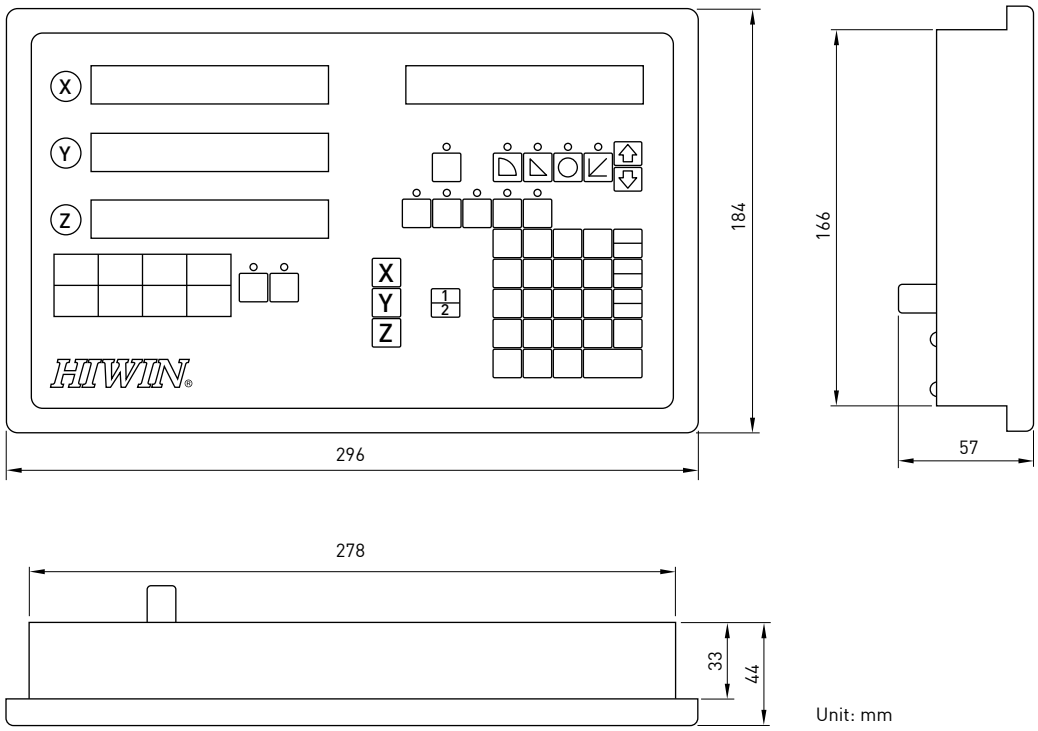
5.1 Specifications:

Display		8 digit LED display
Resolution		0.1μm、0.2μm、0.5μm、1μm、2μm、5μm、10μm、20μm、50μm
Input signal		digital: 5V TTL/RS422
Input voltage		90~240VAC
Operating Frequency		＜2MHz
Operating Temperature		0˚C~50˚C
Storage Temperature		-5˚C~70˚C
Protection class	Display	IP43
Function	General	Coordinate Zero setting
		Unit conversion (mm/inch)
		Absolute/Incremental position(INC/ABS) selection
		Set display digits (0.0001, 0.0002, 0.0005, 0.001, 0.002, 0.005, 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1, 5, 10)
		Radius/diameter selection (RAD/DIA)
		auto-center (1/2) function
	Other	Linear error compensation
		Instant power failure memory
		Shrink function, Calculator, RI detection, Bolt Circle machining, R-angle, Divide holes on an oblique line, Machining on an oblique line
		arc surface machining,inclined plane machining

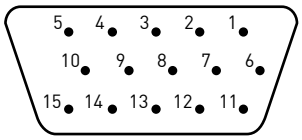
5.2 Ordering Code:



5.3 Dimensions:



5.4 Input signal descriptions:



PIN	Definition	PIN	Definition	PIN	Definition
1	+5V	6	FG	11	NC
2	GND	7	NC	12	NC
3	A+	8	NC	13	NC
4	B+	9	NC	14	NC
5	ABS-	10	NC	15	NC

Note: NC: No Connection
FG: Frame Ground

V. Accessories

1. Signal Transfer Cable

- Signal transfer cable for alternative display devices



Ordering Code:

STC - XX - XX - X

- STC: Signal Transfer Cable
- 0: standard type
- 1:with metal tube
- 00: D-sub VGA 15 pin (for HIWIN display)
- 02: flying lead
- 01: cable length 1m
- 02: cable length 2m

2. Positining Scale Installation Fixture

- For easy scale installation and parallelism of scale with respect to axis is guaranteed.



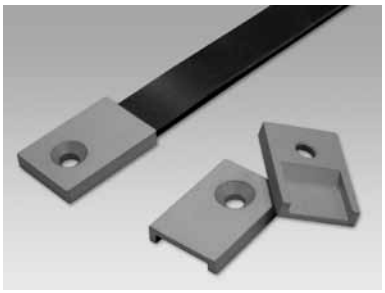
Ordering Code:

PST - 02

- PST: Positioning Scale Installation Fixture
- 02: for tiny type positioning measurement
- 03: for Vertical type positioning measurement
- 04: for Standard type positioning measurement

3. Positioning Scale Fixture

- Prenventing the warpage of scale under harsh environment.



Ordering Code:

PSF - 01

- PSF:Positioning Scale Fixture
- 01: standard

VI. Customer's Requirements(PM)

Date:

Company name				Contact person	
Tel		Fax		Title	
Specifications Requirements for positioning measurement encoders	Accuracy (μm)		Notes		
	Resolution (μm)				
	Repeatability (μm)				
	Max. speed (m/min)				
	Input voltage (V)				
	Output signal				
	Operating Temperature (˚C)				
	Protection level				
Specifications Requirements for signal transistors	Input voltage (V)				
	Output format				
Specifications Requirements for displays	Display axes				
	Display digits				
	Input voltage (V)				
	Operating speed (m/min)				
Budget					
Quantity					
Recommended specification : Proponent :					

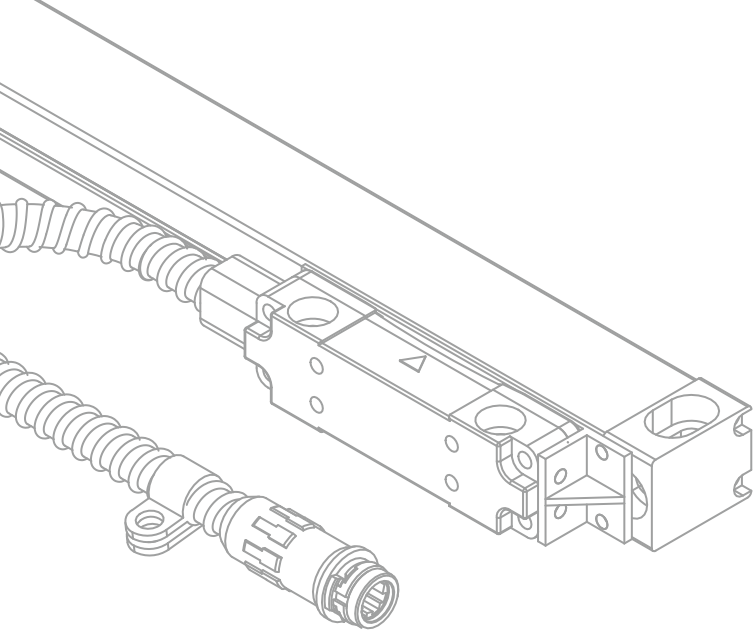
Manager : Head : Applicant :

FME 015-02

MEMO

MEMO

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