

HIWIN

Magnetic Measuring System

Best Solution



- Magnetic measuring system is specially designed for linear position feed back.
- Very cost effective scale for length measurement.
- Resistant to oil, dirt, vibrations and shocks.

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HIWIN magnetic measuring system can be defined as two systems for different application.

• **Linear Scale System:**

- Used for length measuring and the value read by display.



Measuring length	Max. 10M (option: Max. 30M)
Resolution (μm)	5
Accuracy (μm)	± (80+15×L) ,L: Scale length unit(m)
Repeatability (μm)	± 10 μ / m
Max. velocity (m/sec)	3 (Acc. 2G)
Power input	DC5V / 1A
Operating temperature(°C)	0~50
Storage temperature(°C)	-5~70
IP Class	Scale / Sensor: IP66 Display : IP43

- Up/down switch over
- Adjustable decimal point
- Inch/mm switch over
- Absolute/incremental measurement

• **Linear Encoder System:**

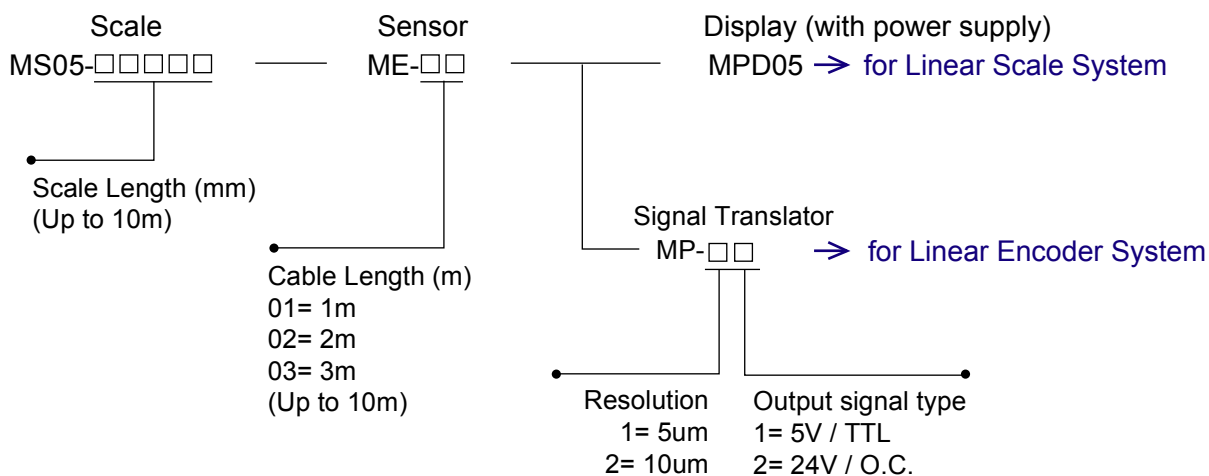
- Used for length measuring and only AB phase output for user's
- PLC or controller systems.



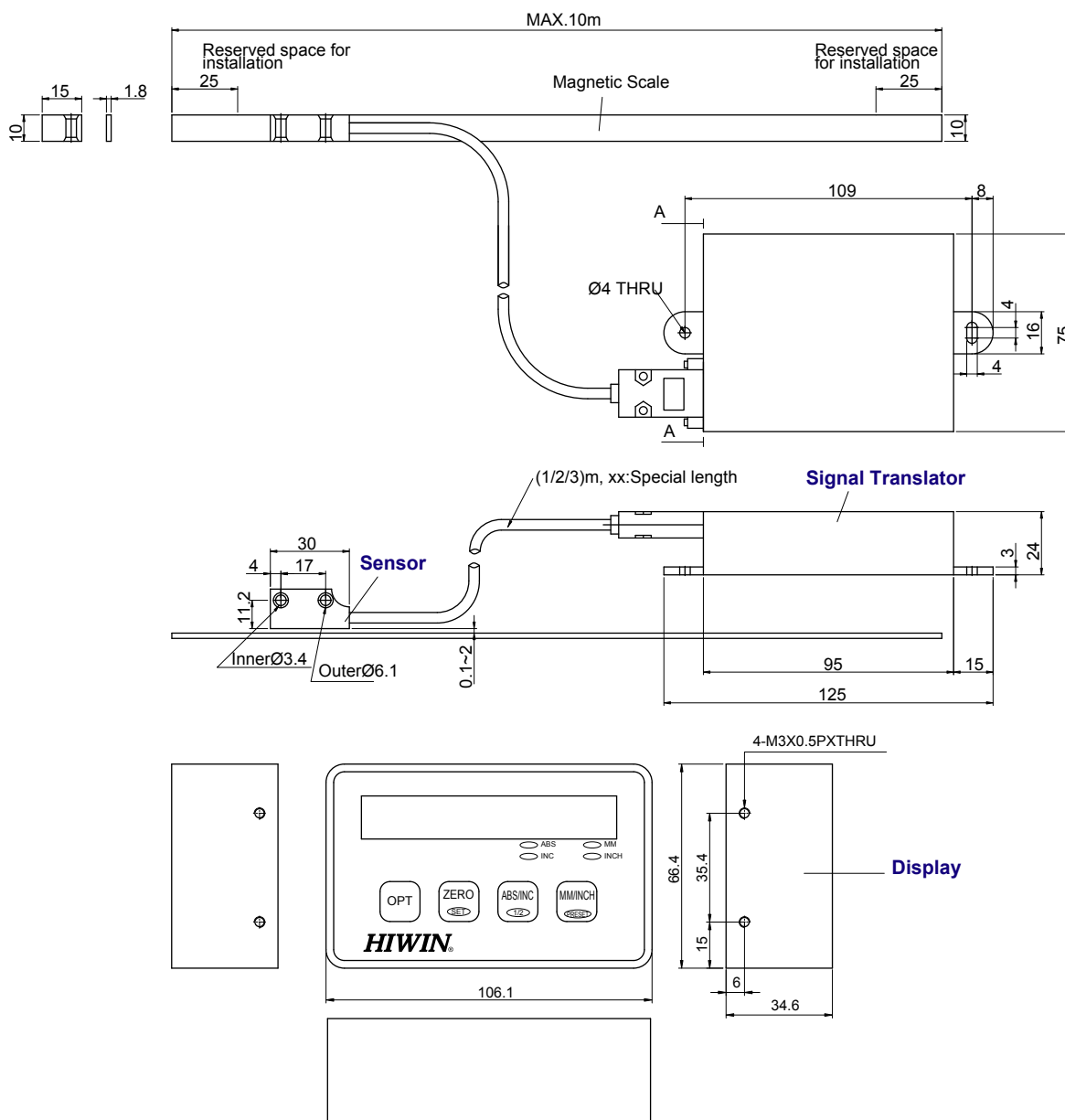
Measuring length	Max. 10M (option: Max. 30M)
Resolution (μm)	5 / 10
Accuracy (μm)	± (80+15×L) , L: Scale length unit(m)
Repeatability (μm)	± 10 μ / m
Max. velocity (m/sec)	1.2 (Acc. 1G)
Output pulse signals	A, B phase differential , O.C
Max. output frequency (KHz)	64/ 32 (at resolution: 5/10μm)
Power input	DC5V / 1A
Operating temperature(°C)	0~50
Storage temperature(°C)	-5~70
IP Class	Scale / Sensor: IP 66 Signal translator: IP 43

- AB phase output
- TTL level differential output interface
- TTL level output interface
- Open collector output interface

• **Description of part category:**

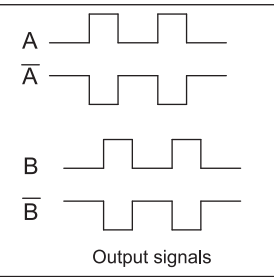


• **Dimensions:**



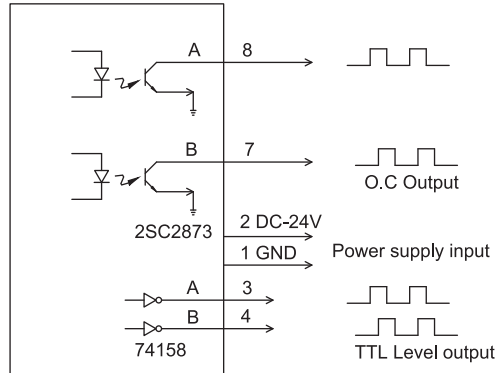
• **Pin definition of signal output connector of MP□ 1:**

Pin No	Signals
1	GND
2	DC5V
3	A
8	\bar{A}
4	B
7	\bar{B}



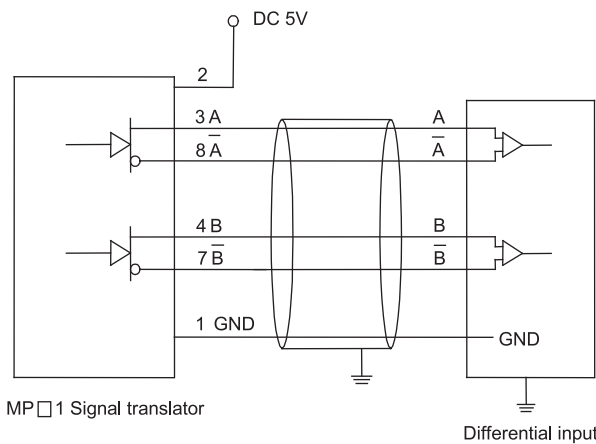
• **Pin definition of signal output connector of MP□ 2:**

Pin No	Signals
1	GND
2	DC24V
8	A (O.C)
7	B (O.C)
3	A (TTL level)
4	B (TTL level)

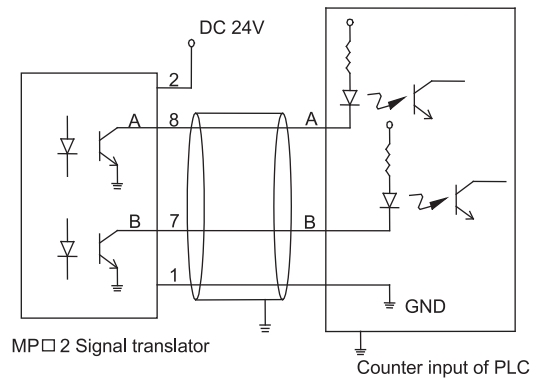


• **Application example:**

MP□ 1 wiring



MP□ 2 wiring



HIWIN®

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HIWIN MIKROSYSTEM CORP.

NO. 1, 6th Road,
Taichung Industrial Park,
Taichung 407, TAIWAN.
Tel : +886-4-2355-0110
Fax: +886-4-2355-0123
http://www.hiwinmikro.com.tw
E-mail: business@mail.hiwinmikro.com.tw

HIWIN GmbH

Brücklesbünd 2, D-77654
Offenburg, GERMANY
Tel : +49-781-93278-0
Fax: +49-781-93278-90
http://www.hiwin.de
E-mail: info@hiwin.de

HIWIN CORPORATION

● **KOBE**
3F. Sannomiya-Chuo Bldg.
4-2-20 Goko-Dori. Chuo-Ku
KOBE 651-0087, JAPAN
Tel : +81-78-262-5413
Fax: +81-78-262-5686
http://www.hiwin.co.jp
E-mail: info@hiwin.co.jp

● **TOKYO**
Tel : +81-3-3598-8413
Fax: +81-3-3598-8414
● **CHUBU-EIGYOSHOU**
Tel : +81-0587-91-3451
Fax: +81-0587-91-3449
● **KUMAMOTO**
Tel : +81-96-340-2282
Fax: +81-96-340-2286

HIWIN CORPORATION

● **CHICAGO**
520 Business Center Drive
Mount Prospect, IL 60056, U.S.A.
Tel : +1-847-8272270
Fax: +1-847-8272291
http://www.hiwin.com
E-mail: info@hiwin.com
● **SILICON VALLEY**
Tel : +1-408-9430290
Fax: +1-408-9430891
http://www.hiwinmikro.com
E-mail: info@hiwinmikro.com

HIWIN SCHWEIZ

Einsiedlerstrasse 535, 8810 Horgen
SWITZERLAND
Tel : +41-43-3550330
Fax: +41-43-3550331
http://www.hiwin.ch
E-mail: info@hiwin.ch

HIWIN S.R.O.

Lozibky 15
61400 Brno,
CZECH REPUBLIC
Tel/Fax: +420-5-485-28238
http://www.hiwin.cz
E-mail: hiwin@sky.cz