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2017 Catalog

NANJING HECHO TECHNOLOGY CO., LTD



Hecho

Our Advantages:



Halogen light source



Multi-branch bundles



Professional production,
meet to various design
requirements



Threaded sensor



LED light source



Straight light guide



Dual arm light guide



Ring light guide



Line light guide



Tailed fibers



Fiber illumination



Silica fiber



Light source module



Machine visions

Professional Optical Fiber & Illuminator Manufacturer

Professional service,
to provide system
solutions

Provide more cost-effective
products, Lowering the
operating costs

Constant pursuit of
perfect quality, to sincere
cooperation with you

Energy conservation and
environmental protection
product design concept



Flat-thin sensor



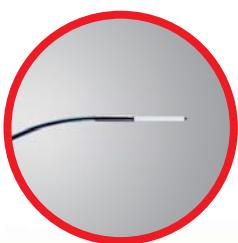
Wide area sensor



Heat resistant sensor



Sensor lens



Liquid-level sensor



Cylinder sensor



Defined light sensor



MITSUBISHI POC



Toray POF



AsahiKASEI POF

High Precision Digital Fiber Optic Sensor FAS-N11 Series



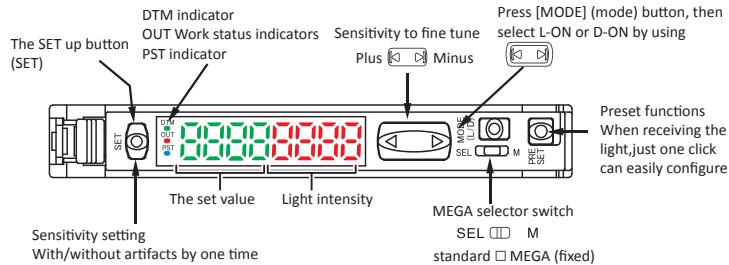
- ▶ Automatic sensitivity tracking function
- ▶ High power, variety of patterns
- ▶ Easy to use standard of double digital display
- ▶ A new concept, one key set button

Specification

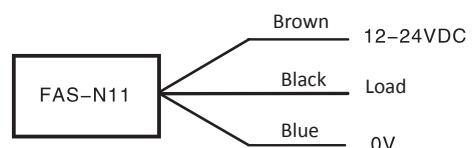
Model	FAS-N11	FAS-N11P
Type	NPN	PNP
Light source	Red light emitting diode LED tube body	
Response time	100μs(HIGH SPEED)/250μs(FINE)/1ms(TURBO)16ms(MEGA)	
Output selection	LIGHT-ON / DARK-ON (Switch selection)	
Detection mode	Light intensity (Area detection, Automatic sensitivity tracking function)	
Delay function	Disconnect delay timer/Open delay timer/Single timer/Open single delay timer, choose the timer duration: 0.1ms ~ 9.999ms, Precision scope as set value ± 10%	
Control output	NPN open collector 24V; Max. output value:100mA; Residual voltage: Max. 1V	PNP open collector 24V; Max. output value:100mA; Residual voltage: Max. 1V
Supply voltage	12-24VDC ± 10%, Ripple voltage (P-P): Max. 10%	
Current consumption	Max. 750mW (24V, maximum 31mA; 12V, maximum 40mA). Energy saving mode: maximum 580mW (24V, maximum 24mA; 12V, maximum 28mA) Note: when using the "HIGH SPEED" mode, the power consumption will increase 160mW (7mA).	
Environmental photometric	Incandescent lamp Maximum 20000lux Daylight: Max 30000lux	
Environment temperature	-20 to +55 C (no freezing)	
Relative humidity	35 to +85%RH (no freezing)	
Anti vibration property	10 to 55Hz, the composite amplitude of 1.5mm, X、Y、Z axis direction of the 2 hours each	
Seismic property	X, Y, Z axis direction of the 3 time	
Shell material	Polycarbonate	
Size	30.3mm (H) x 9.8mm (W) x 71.8mm (D)	
Weight	Approx. 80g	

FAS-N11 Quick Start And Wiring

Quick Start



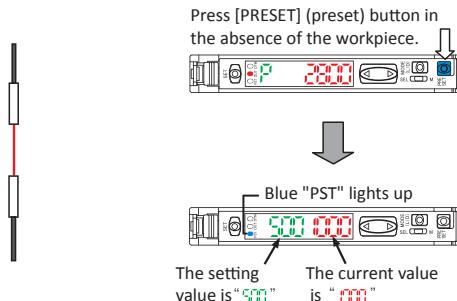
Wiring



* Hold the [MODE (MODE) button to change advanced Settings.

Preset function

When received, press [PRESET] (preset) button. Current value is set to 1000



Press the [PRESET] button to change the current value and the setting value.

Disabling the preset, application of preset

Setting value is 500

Through normal calibration method can change the set point.

Enabling preset, application of preset

Only the current value is "1000", the setting value is unchanged.

Note Preset function with zero displacement function cannot be used together. To use the zero transfer function, must first be banned preset functions. This pattern is not suitable for transparent artifacts and other low light intensity difference detection.

Disabling the preset functions

Hold the [PRESET] (preset) button to disable the preset functions
Disable the preset function, the ratio of the value and current value remains intact.



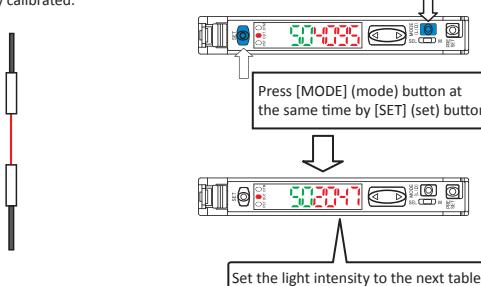
Convenient function of preset function.

This feature is most suitable for the use of a control type of optical fiber unit for the implementation of a simple detection of the situation (for example, complete block detection, such as optical fiber unit all optical axis are not transparent workpiece blocking the case).

Saturation recovery function

Press [MODE] (mode) button at the same time by [SET] (set) button to start the saturation recovery function.

At this point, the optical transmission level and optical intensity gain are automatically calibrated.



Power mode	Light intensity setting range
HSP*, FINE	2047 ± 350
SUPER	4095 ± 500
MEGA	5000 ± 600

*HIGH SPEED

Disabling saturation recovery function

After starting the saturation recovery function, press the [SET] (mode) button at the same time to press the [MODE] button to cancel to enable this feature.



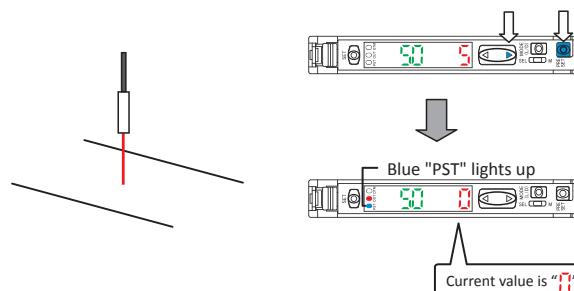
Convenient function of saturation recovery function

For the installation of light intensity saturated situation this feature is particularly useful. This function can automatically adjust the optical transmission level and the optical intensity gain through the simple operation, and then realize the correction of saturation.

Zero transfer function

This feature is mainly used for reflective.

At the same time, hold down the [PRESET] (pre set) button and [▶] button. The current value is set to "0"



Note Zero migration and preset function cannot be used together. To use the preset functions, zero migration must first be disabled.

Disabling the zero migration function

Hold the [PRESET] (PRESET) button to disable the zero transfer function.

Convenient function of zero shift function

This feature is mainly used for the reflection type optical fiber unit to set the current value to "0". After first installation of reflective optical fiber unit, sometimes light intensity is not set to "0". If this is the case, the use of zero migration function will be set to "0", so that the intensity difference is more obvious.

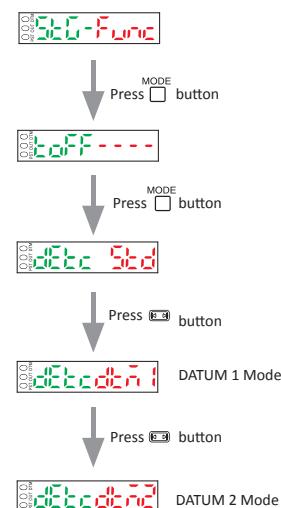
DATUM Model

DATUM model Trough beam type applicable to the received light intensity gradually changing environment. Optical fiber module, for example, affected by pollution or sharp temperature change environment.

DATUM reflection type is only applicable to the background, and the target reflection is very weak environment, such as the black on the white cloth buttons.

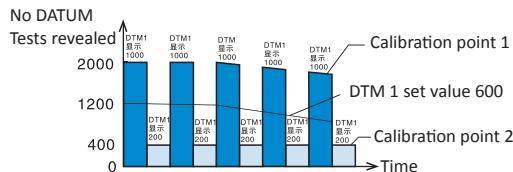
In DTUM mode, in the absence of the workpiece under the condition of the received light intensity is always correct to "000" (for DTUM1) or "0" (DATUM2). In addition, the set value will be according to the amount of correction for correction, so that the ratio of the value and the intensity of light received remains the same, so as to realize stable detection. Set data showed no change.

Enter the DATUM mode of operation



The sensitivity of setting DATUM 1 mode

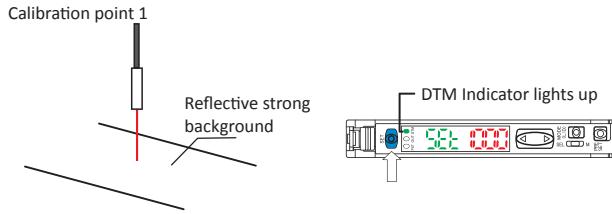
Sensitivity Settings will always be automatic correction, so in the case of no artifacts receives the light intensity is "000".



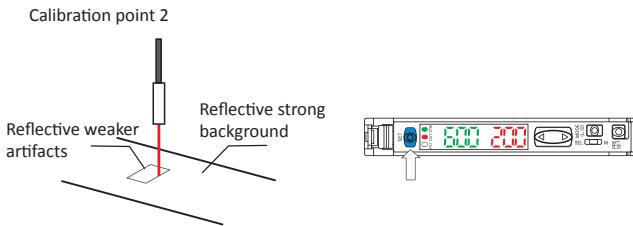
Below the sensitivity setting step is an example of a two-point calibration. Among them, when there is no artifacts, the received light intensity is "000", when the workpiece is I, the received light intensity is "200".

[Trough beam] and [Reflection] is conformity

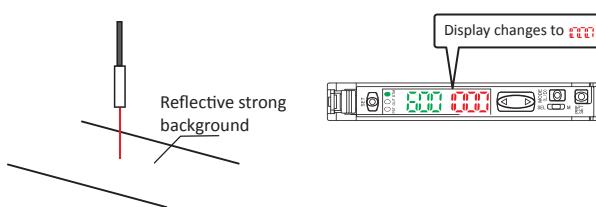
In the case of no artifacts, press SET button



In the case of have artifacts, press SET button

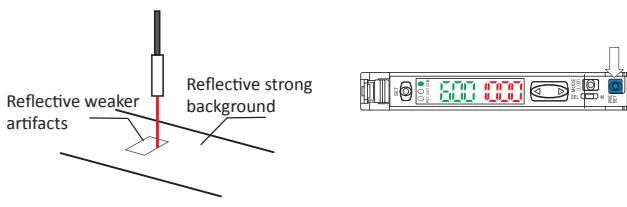


In the full light receiving state receive light intensity shows "000"



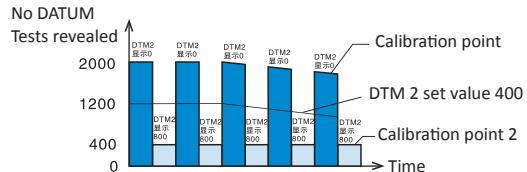
Note

If in the case of no artifacts displayed value less than 000, and did not reach 000 after the 30 seconds, inquire the PRESST button. Intensity of light that will receive the correction is 000. When the intensity of received light to stop flashing, the correction has been completed.



The sensitivity of setting DATUM 2 mode

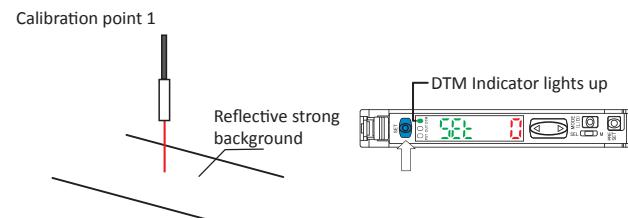
Sensitivity Settings will always be automatic correction, so in the case of no artifacts receives the light intensity is "0".



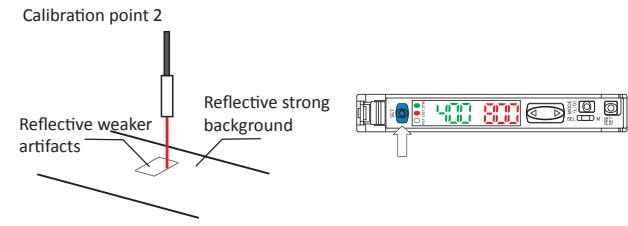
Below the sensitivity setting step is an example of a two-point calibration. Among them, when there is no artifacts, the received light intensity is "0", when the workpiece is I, the received light intensity is "800".

[Trough beam] and [Reflection] is conformity

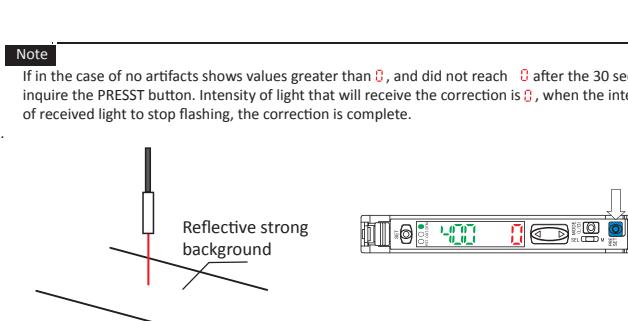
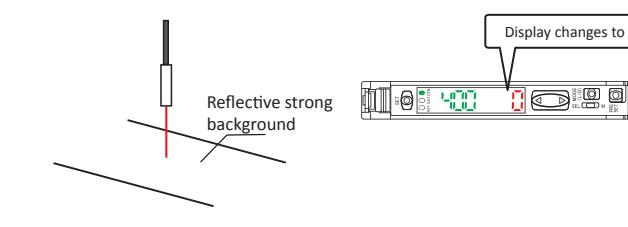
In the case of no artifacts, press SET button



In the case of have artifacts, press SET button

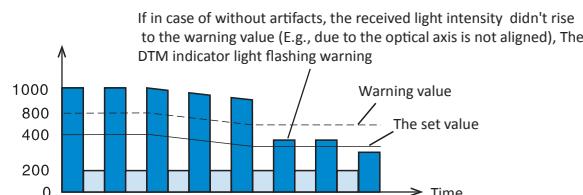


In the full light receiving state receive light intensity shows "0"



■ Warning of change output level

The DATUM warning value is the intermediate value of the light intensity and setpoint received by the workpiece. If the received light intensity is between the warning value and the set value, the received light intensity will stop the correction and the DTM indicator Flashing warning.



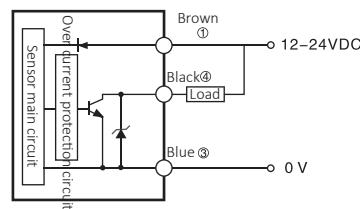
DTM indicator light flashing ON OFF ——————

Input/Output circuit diagram

Output circuit diagram

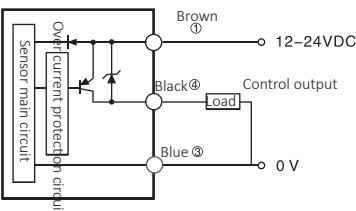
NPN

FAS-N11



PNP

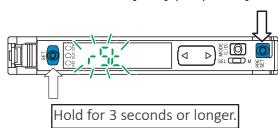
FAS-N11P



Initialization setting

■ Initialization method

- At the same time hold down the [SET] (set) and [PRESET] (pre set) button for 3 seconds.



Units: mm

- Use select **r5E**, then press [MODE] (mode) button.
- Use select **in it**, then press [MODE] (mode) button.

After the completion of the initialization, the module displays the current value again.

Initial setting

Set	Initial value
Power mode	FINE
Detection mode	Std (Standard)
Setting value	200
Output switching	L-on

Selecting Output

Optional mode for the light action (L-on) or shading action (D-on).

- When displaying the current value , press [MODE] (mode) button.



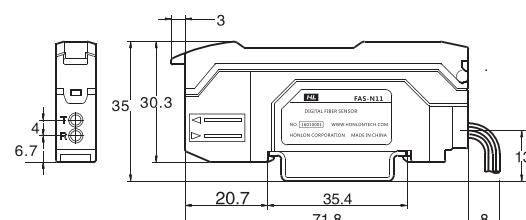
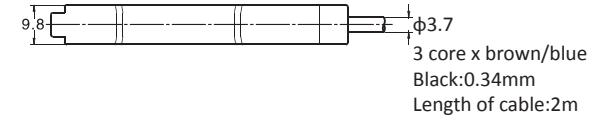
- Use to switch output (**L - on d - on**), then press the MODE (MODE) button. After completion of the output switch module to display the current values.

Error indication & correction measures

Error indication	ERC	ERE	END APC	LOC
Reason	Control over current existing in the output	Internal data write / load failure	Heavy load on the light source	Open the key lock function
Solution	Detect load ,and return current to the rated value range.	Perform initialization	For high precision testing, please replace the sensor.	The disabled (set) method, please refer to the "FAS-N11 user manual"

Drawing

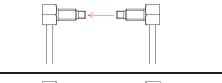
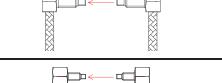
FAS-N11



Trough beam Fiber Optic Sensor
Threaded Fiber Sensors

Type	Appearance	Minimum bending radius	Detection distance	Optical axis diameter	Minimum detectable objects	Model	Drawing
M4		R25	MEGA: 3600 FINE: 1100	Ø1	Ø 0.005 Gold wire	PT-7F	
		R2	MEGA: 3600 FINE: 880	Ø1.13		PT-77	
		R10 SUS	MEGA: 1800 FINE: 880	Ø1		PT-77G	
		R4	MEGA: 2200 FINE: 440	Ø1		PT-78	
M6		R25	MEGA: 3600 FINE: 1300	Ø1.5		PT-71	

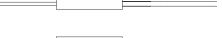
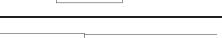
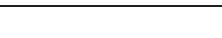
Hex-shaped Fiber Sensors

Type	Appearance	Minimum bending radius	Detection distance	Optical axis diameter	Minimum detectable objects	Model	Drawing
M4		R2	MEGA: 3100 FINE: 640	Ø1	Ø 0.005 Gold wire	PT-77TZ	
		R10 SUS	MEGA: 1800 FINE: 640			PT-77TG	
		R20 SUS	MEGA: 1800 FINE: 640			PT-77MTG	

Cylindrical Fiber Sensors

Type	Appearance	Minimum bending radius	Detection distance	Optical axis diameter	Minimum detectable objects	Model	Drawing
Ø1.5		R4	MEGA: 1200 FINE: 230	Ø0.5	Ø 0.005 Gold wire	PT-59	
Ø2.5		R10	MEGA: 45 FINE: 13	Ø0.125		PT-55	
		R10	MEGA: 45 FINE: 13	Ø0.125		PT-56	
Ø3		R25	MEGA: 3600 FINE: 1100	Ø1.13		PT-5F	
		R2	MEGA: 3600 FINE: 880	Ø1		PT-5FZ	

Drivepipe Type Fiber Sensors

Type	Appearance	Minimum bending radius	Detection distance	Optical axis diameter	Minimum detectable objects	Model	Drawing
侧视		R25	MEGA: 520 FINE: 100	Ø0.6	Ø 0.005 Gold wire	PT-32	
		R25	MEGA: 600 FINE: 300	Ø1		PT-T14L-OM	
		R1	MEGA: 270 FINE: 130	Ø1		PT-T14LR-OM	
顶视		R10	MEGA: 370 FINE: 85	Ø0.265		PT-76F	
		R10	MEGA: 45 FINE: 13	Ø0.125		PT-56	

Note:

- The above units are as follows: mm
- The minimum detectable object is under the condition of optimal detection distance and sensitivity Settings

■ Flat-thin detection sensor

Type Light mode	Appearance	Minimum bending radius	Detection distance	Optical axis diameter	Minimum detectable objects	Model	Drawing
Top		R2	MEGA: 810 FINE: 170	Ø 0.5	φ 0.005 Gold wire	PT-51TZ	
		R2	MEGA: 2900 FINE: 610	Ø 1		PT-52TZ	
Side		R2	MEGA: 740 FINE: 140	Ø 0.5	φ 0.005 Gold wire	PT-57TZ	
		R4	MEGA: 630 FINE: 110	Ø 0.7		PT-57TE	
Flat		R2	MEGA: 500 FINE: 140	Ø 0.5	φ 0.005 Gold wire	PT-53TZ	
		R2	MEGA: 2900 FINE: 610	Ø 1		PT-54TZ	

■ Area detection sensor

Type Light mode	Appearance	Minimum bending radius	Detection distance	Optical axis width	Minimum detectable objects	Model	Drawing
Array		R4	MEGA: 2200 FINE: 440	10	φ 0.005 Gold wire	PT-A10	
		R2	MEGA: 2300 FINE: 860	5.5		PT-AL05-PA	
Area		R2	MEGA: 3600 FINE: 2700	11	φ 0.005 Gold wire	PT-E11	
		R2	MEGA: 3600 FINE: 2700	40		PT-E40	
		R4	MEGA: 2200 FINE: 150	5.25	φ 0.005 Gold wire	PT-10ML	
		R4	MEGA: 2200 FINE: 440	24.8		PT-30ML	
		R4	MEGA: 2200 FINE: 300	46.5		PT-50ML	

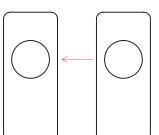
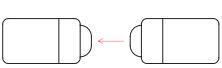
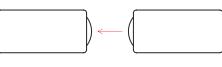
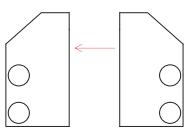
■ Heat resistant sensor

Temperature	Appearance	Minimum bending radius	Detection distance	Optical axis diameter	Minimum detectable objects	Model	Drawing
105°C		R25	MEGA: 3600 FINE: 1100	Ø 1	φ 0.005 Gold wire	PT-86A	
200°C			MEGA: 1800 FINE: 450			GT-410FP	
			MEGA: 3600 FINE: 390			GT-420FP	
250°C		R25	MEGA: 1800 FINE: 350			GT-11-10	
300°C			MEGA: 1800 FINE: 390			GT-84C	
350°C			MEGA: 1800 FINE: 450			GT-410	
			MEGA: 3600 FINE: 390			GT-420	

Note:

- The above units are as follows: mm
- The minimum detectable object is under the condition of optimal detection distance and sensitivity Settings

■ Lens

Type	Appearance	Detection distance	Environment temperature	Applicable models	Model	Drawing
Side view		MEGA: 3600 FINE: 3600	-40~70°C	PT-7F	F-1	
		MEGA: 3600 FINE: 3600		PT-77		
		MEGA: 3600 FINE: 3600		PT-77TZ		
		MEGA: 1800 FINE: 1800		PT-77G		
		MEGA: 1800 FINE: 1800		PT-77TG		
Top view		MEGA: 3600 FINE: 3600	-40~300°C	PT-7F	F-2	
		MEGA: 3600 FINE: 3600		PT-77		
		MEGA: 3600 FINE: 3600		PT-77TZ		
		MEGA: 1800 FINE: 1800		PT-77G		
		MEGA: 1800 FINE: 1800		PT-77TG		
		MEGA: 3600 FINE: 3600		PT-84C		
Top view		MEGA: 3600 FINE: 3600	-40~70°C	PT-7F	F-4	
		MEGA: 3600 FINE: 3600		PT-77		
		MEGA: 3600 FINE: 3600		PT-77TZ		
		MEGA: 1800 FINE: 1800		PT-77G		
		MEGA: 1800 FINE: 1800		PT-77TG		
Side view		MEGA: 3600 FINE: 3600	-40~105°C	PT-7F	F-5	
		MEGA: 3600 FINE: 3600		PT-77		
		MEGA: 3600 FINE: 3600		PT-77TZ		
		MEGA: 1800 FINE: 1800		PT-77G		
		MEGA: 1800 FINE: 1800		PT-77TG		
		MEGA: 3600 FINE: 1300		PT-86A		

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■ Accessories · fiber protection tube

Type	Appearance	Minimum bending radius	Length	Applicable models	Model	Drawing
M3		R25	1000	PR-21X	FK-310	
				PR-24X		
				PR-35FA		
				PR-35FZ		
M4		R25	1000	PR-66	FK-410	
				PR-66Z		
				PT-7F		
				PT-77		
M6		R25	1000	PR-6F	FK-610	
				PR-25		
				PR-67		

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Reflective Fiber Sensors
Threaded Fiber Sensors

Type	Appearance	Minimum bending radius	Detection distance	Minimum detectable objects	Model	Drawing
M3		R25	MEGA: 130 FINE: 36	$\phi 0.005$ Gold wire	PR-21X	
		R10	MEGA: 100 FINE: 13		PR-24X	
		R25	MEGA: 550 FINE: 110		PR-35FA	
		R2	MEGA: 450 FINE: 72		PR-35FZ	
		R10 SUS	MEGA: 450 FINE: 72		PR-35FG	
M4		R25	MEGA: 1100 FINE: 300	$\phi 0.005$ Gold wire	PR-66	
		R2	MEGA: 770 FINE: 190		PR-66Z	
M6		R25	MEGA: 720 FINE: 160	$\phi 0.005$ Gold wire	PR-25	
		R25	MEGA: 1100 FINE: 300		PR-6F	
		R2	MEGA: 900 FINE: 210		PR-67	
		R10 SUS	MEGA: 900 FINE: 210		PR-67G	
		R20 SUS	MEGA: 900 FINE: 210		PR-67MG	
		R25	MEGA: 1300 FINE: 380		PR-61	

Hex-shaped Fiber Sensors

Type	Appearance	Minimum bending radius	Detection distance	Minimum detectable objects	Model	Drawing
M3		R2	MEGA: 400 FINE: 70	$\phi 0.005$ Gold wire	PR-35TZ	
		R10 SUS	MEGA: 400 FINE: 70		PR-35TG	
M4		R2	MEGA: 710 FINE: 210	$\phi 0.005$ Gold wire	PR-66TZ	
M6		R10 SUS	MEGA: 710 FINE: 210		PR-67TG	
		R25 SUS	MEGA: 710 FINE: 210		PR-67MTG	

Note:

- The above units are as follows: mm
- The above detection distance standard reference is: 100 mm x 100 mm matte white paper
- The minimum detectable object is under the condition of optimal detection distance and sensitivity Settings

Cylindrical Fiber Sensors

Type	Appearance	Minimum bending radius	Detection distance	Minimum detectable objects	Model	Drawing
Ø 1.5		R4	MEGA: 150 FINE: 32	φ 0.005 Gold wire	PR-49X	
		R10	MEGA: 27 FINE: 5		PR-46	
Ø 2.5		R25	MEGA: 72 FINE: 23	φ 0.005 Gold wire	PR-22X	
Ø 3		R2	MEGA: 770 FINE: 190		PR-4FZ	
		R25	MEGA: 1100 FINE: 300		PR-4F	
		R4	MEGA: 290 FINE: 63		PR-48	
		R2	MEGA: 140 FINE: 40		PR-48U	
		R25	MEGA: 830 FINE: 180		PR-23X	
		R4	MEGA: 68 FINE: 18		PR-45X	

Drivepipe Type Fiber Sensors

Type	Appearance	Minimum bending radius	Detection distance	Minimum detectable objects	Model	Drawing
Side		R10	MEGA: 180 FINE: 32	φ 0.005 Gold wire	PR-31	
		R25	MEGA: 320 FINE: 45		PR-33	
Top		R4	MEGA: 68 FINE: 18	φ 0.005 Gold wire	PR-65X	
		R25	MEGA: 330 FINE: 72		PR-63T	
		R4	MEGA: 68 FINE: 18		PR-45X	
		R10	MEGA: 27 FINE: 5		PR-46	
		R25	MEGA: 72 FINE: 23		PR-22X	

Flat-thin Fiber Sensors

Type	Appearance	Minimum bending radius	Detection distance	Minimum detectable objects	Model	Drawing
Top		R2	MEGA: 160 FINE: 36	φ 0.005 Gold wire	PR-44TZ	
			MEGA: 160 FINE: 36		PR-47TZ	
Side		R2	MEGA: 120 FINE: 24		PR-41TZ	
			MEGA: 500 FINE: 70		PR-42TZ	
			MEGA: 2300 FINE: 290		PR-40	

Note:

1. The above units are as follows: mm
2. The above detection distance standard reference is: 100 mm x 100 mm matte white paper
3. The minimum detectable object is under the condition of optimal detection distance and sensitivity Settings

■ Limit light Fiber Sensor

Type	Appearance	Minimum bending radius	Detection distance	Minimum detectable objects	Model	Drawing
Side		R10	6	φ 0.1 Gold wire	PR-38	☞ P.34
		R10	4	φ 0.1 Gold wire	PR-38V	

■ Area Detection Fiber Sensor

Type	Appearance	Minimum bending radius	Detection distance	Minimum detectable objects	Model	Drawing
阵列		R4	MEGA: 740 FINE: 140	φ 0.005 Gold wire	PR-A05D	☞ P.37
		R4	MEGA: 740 FINE: 140	φ 0.005 Gold wire	PR-A10D	
区域		R25	MEGA: 200 FINE: 140	φ 0.1 Gold wire	PR-11	☞ P.33
		R2	MEGA: 285 FINE: 100	φ 0.1 Gold wire	PR-AL11-PA	

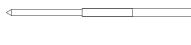
■ Heat Resistant Fiber Sensor

Type	Appearance	Minimum bending radius	Detection distance	Minimum detectable objects	Model	Drawing
105°C		R25	MEGA: 1100 FINE: 230	φ 0.005 Gold wire	PR-85A	☞ P.36
200°C			MEGA: 1100 FINE: 230		GR-610FP	
			MEGA: 1100 FINE: 230		GR-620FP	
250°C			MEGA: 1100 FINE: 150		GR-11-10	
300°C			MEGA: 770 FINE: 190		GR-82C	
			MEGA: 500 FINE: 70		GR-83C	
350°C			MEGA: 1100 FINE: 180		GR-410(100)	
			MEGA: 1100 FINE: 180		GR-420(100)	
			MEGA: 1100 FINE: 180		GR-610(100)	
			MEGA: 1100 FINE: 180		GR-620(100)	
			MEGA: 1100 FINE: 180		GR-D61	
			MEGA: 1100 FINE: 180		GR-D61-S	☞ P.37
			MEGA: 1100 FINE: 180		GR-D73	
			MEGA: 1100 FINE: 180		GR-D73-S	

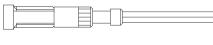
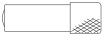
Note:

1. The above units are as follows: mm
2. The above detection distance standard reference is: 100 mm x 100 mm matte white paper
3. The minimum detectable object is under the condition of optimal detection distance and sensitivity Settings

■ Liquid level Detection Fiber Sensor

Type	Appearance	Minimum bending radius	Detection distance	Model	Drawing
Pipeline		R10	φ4 to φ26 transparent pipe	PR-95	
		R10	φ4 to φ26 transparent pipe	PR-95HA	
		R4	Unlimited transparent pipe diameter	PR-D36T-OM	
Immersion		R40	50 to 1950	PR-320-SQ	

■ Lens

Type	Appearance	Light spot diameter	Focal length	Applicable models	Model	Drawing
Adjustable light spot		φ0.9 ~ φ3.5	10 ~ 30	One-piece	PR-10	
Small light point		Approx. φ0.4	7 ± 2		F-2HA	
Parallel beam		Approx. φ4	0 ~ 20		F-3HA	
Small light point		Approx. φ0.5	15 ± 2		PR-21X PR-24X PR-35FA	
Adjustable light spot		φ0.5 ~ 3	8 ~ 30		PR-35FZ PR-35FG PR-35TZ	
Small light point		Approx. φ2	35 ± 3		PR-35TG F-4HA F-5HA	

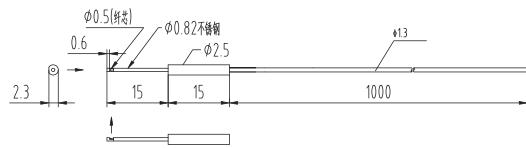
Note:

1. The above units are as follows: mm
2. The above detection distance standard reference is: 100 mm x 100 mm matte white paper
3. The minimum detectable object is under the condition of optimal detection distance and sensitivity Settings

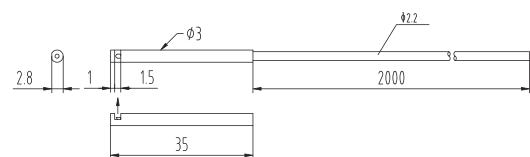
Trough Beam Sensor

(单位: mm)

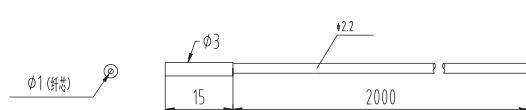
PT-32



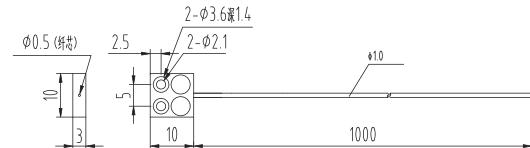
PT-T14L-OM PT-T14LR-OM



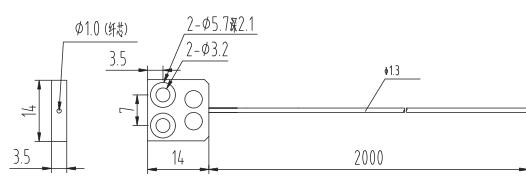
PT-5F / PT-5FZ



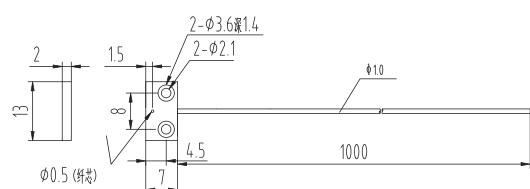
PT-51TZ



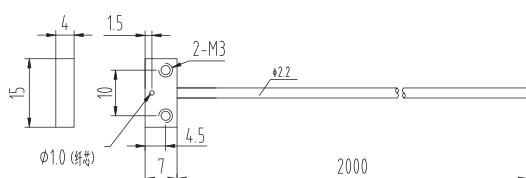
PT-52TZ



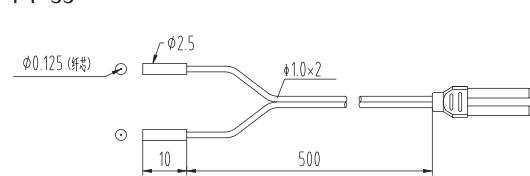
PT-53TZ



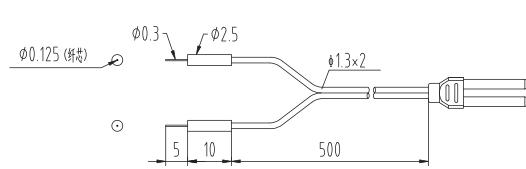
PT-54TZ



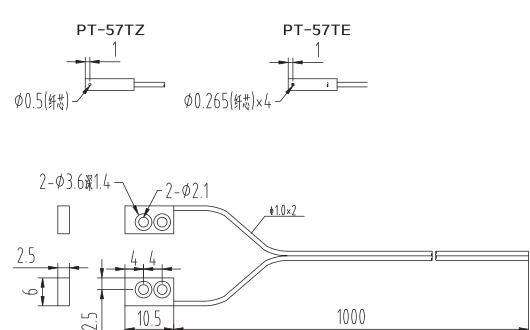
PT-55



PT-56



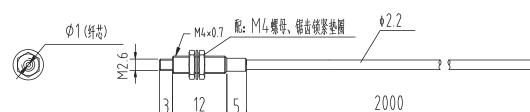
PT-57TZ / PT-57TE



PT-59



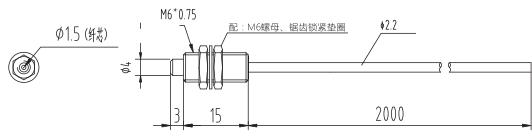
PT-7F



(单位: mm)

Trough Beam Sensors

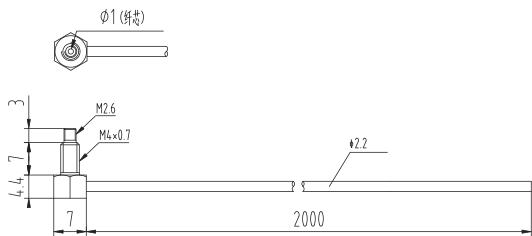
PT-71



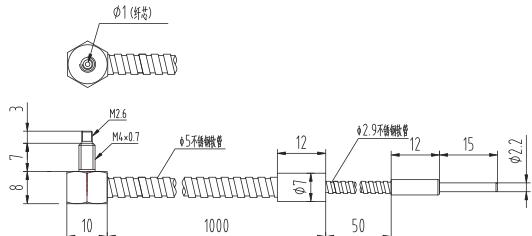
PT-77



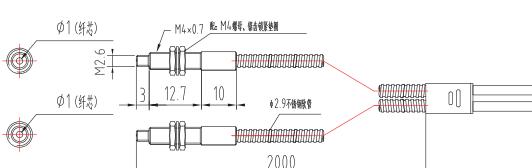
PT-77TZ



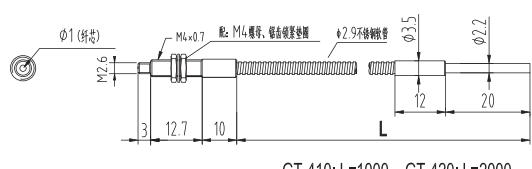
PT-77MTG



GT-84C

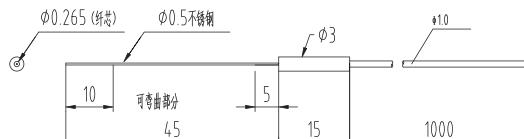


GT-410 / GT-420

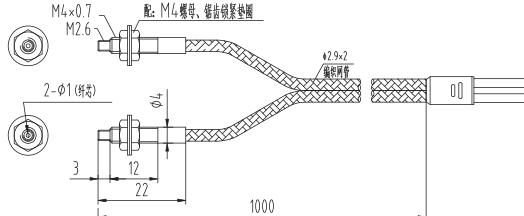


GT-410: L=1000 GT-420: L=2000

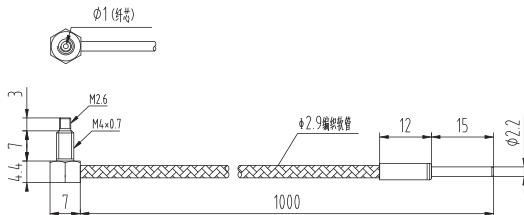
PT-76F



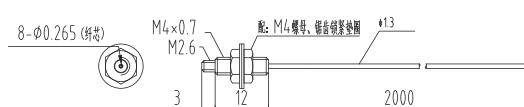
PT-77G



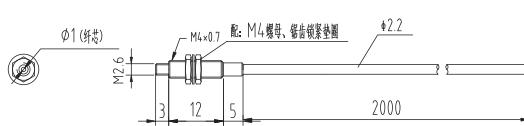
PT-77TG



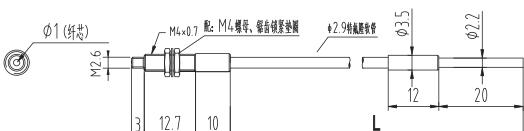
PT-78



PT-86A



GT-410FP / GT-420FP

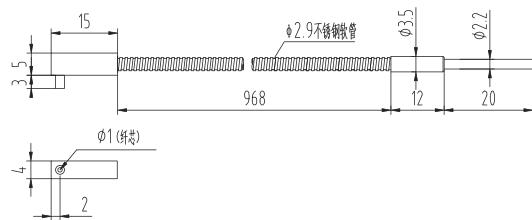


GT-410FP: L=1000 GT-420FP: L=2000

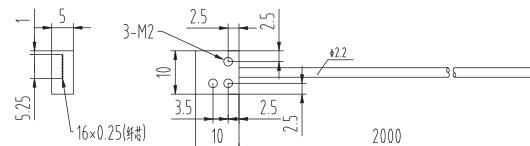
Trough Beam Sensor

(单位: mm)

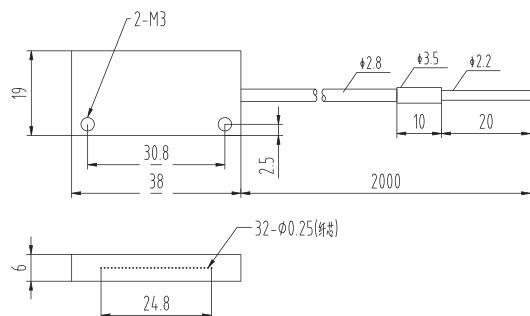
GT-11-10



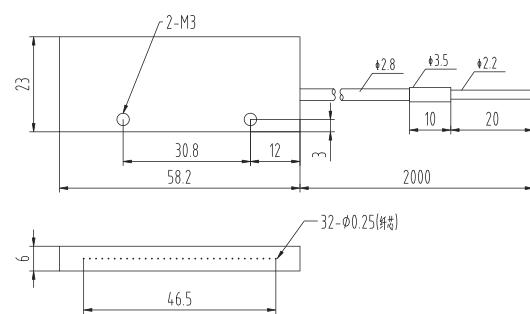
PT-10ML



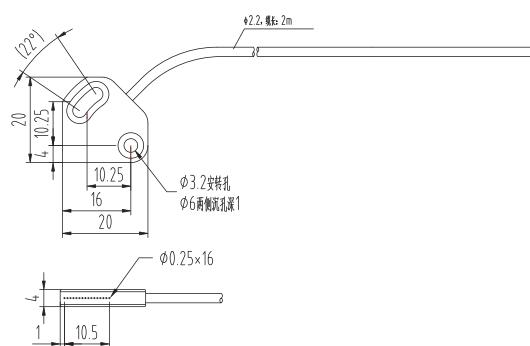
PT-30ML



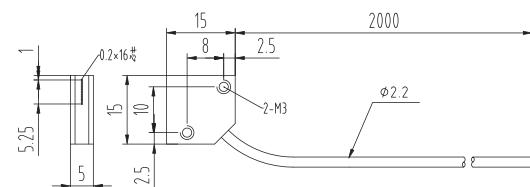
PT-50ML



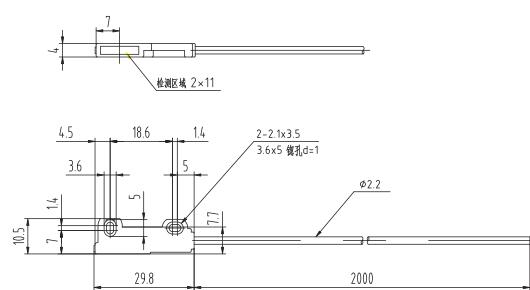
PT-A10



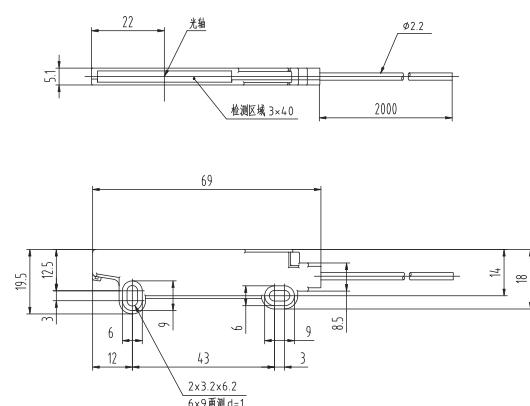
PT-AL05-PA



PT-E11



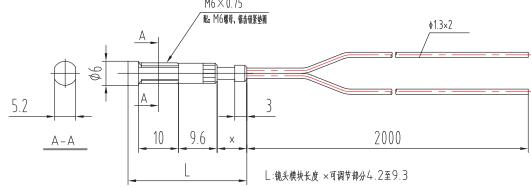
PT-E40



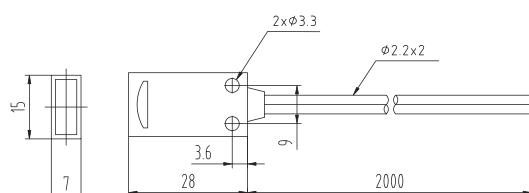
(单位: mm)

Reflective Sensor

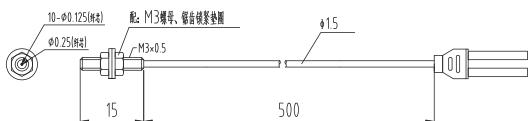
PR-10



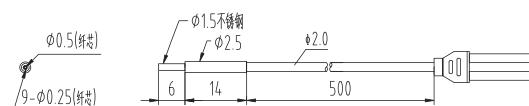
PR-11



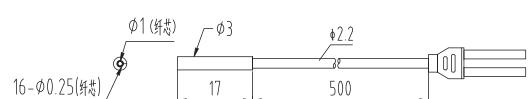
PR-21X



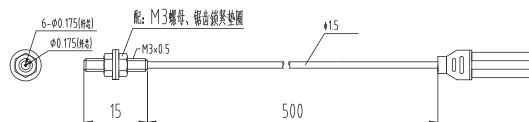
PR-22X



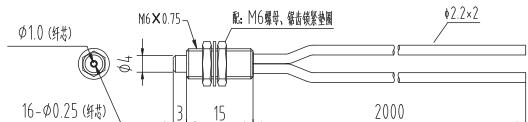
PR-23X



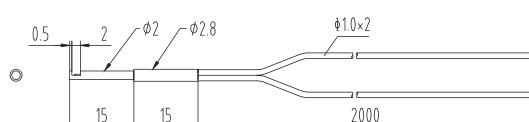
PR-24X



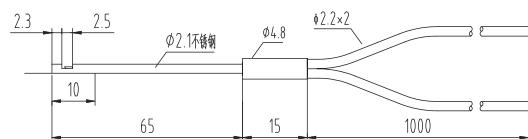
PR-25



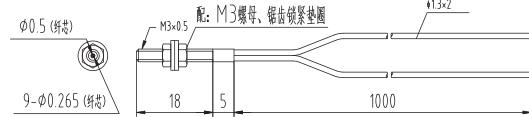
PR-31



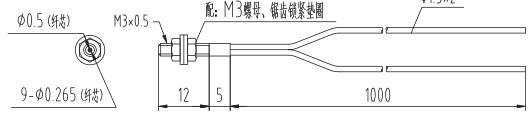
PR-33



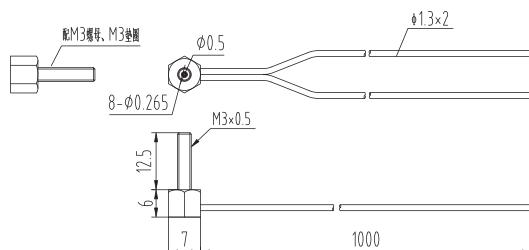
PR-35FA



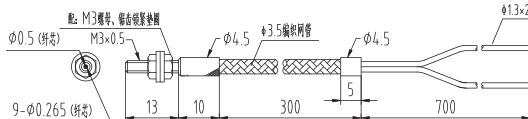
PR-35FZ



PR-35TZ



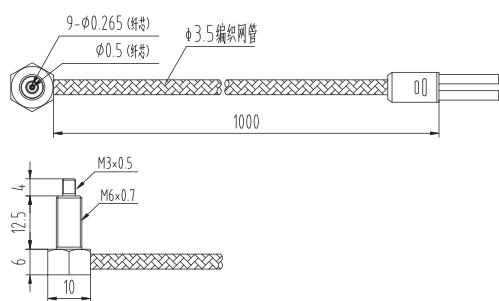
PR-35FG



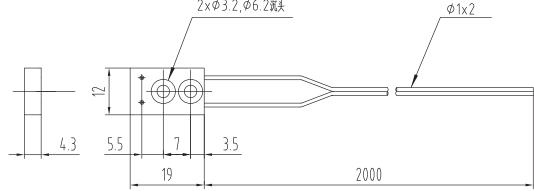
Reflective Sensor

(单位: mm)

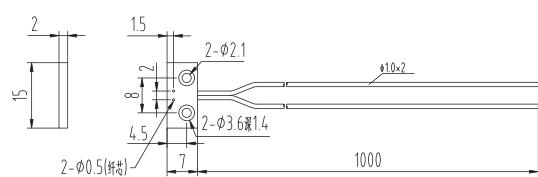
PR-35TG



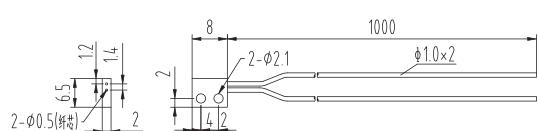
PR-38V



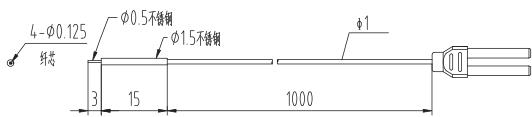
PR-41TZ



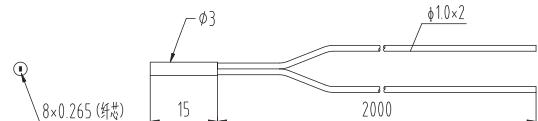
PR-44TZ



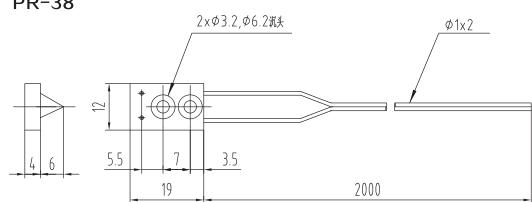
PR-46



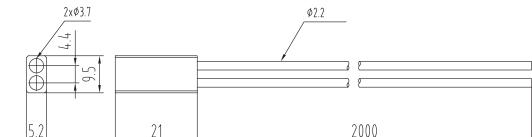
PR-48



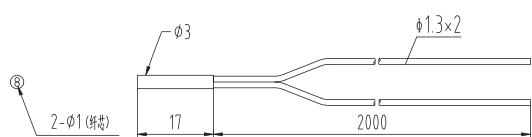
PR-38



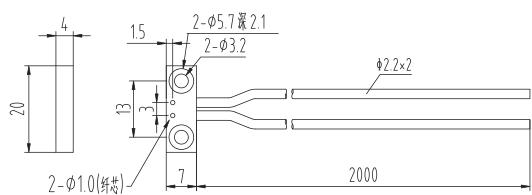
PR-40



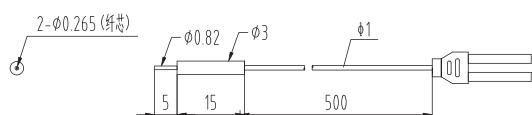
PR-4F / PR-4FZ



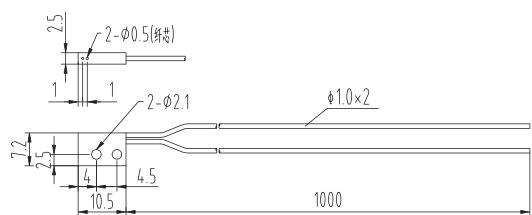
PR-42TZ



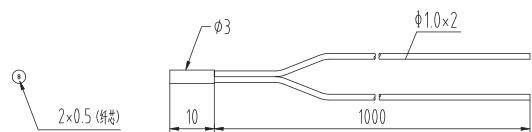
PR-45X



PR-47TZ



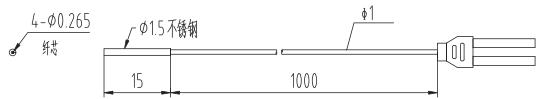
PR-48U



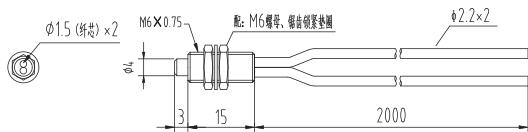
(单位: mm)

Reflective Sensor

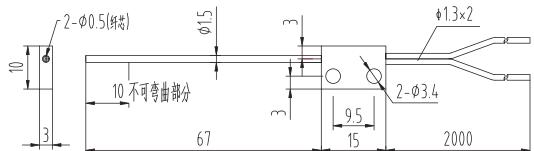
PR-49X



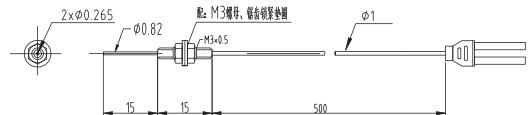
PR-61



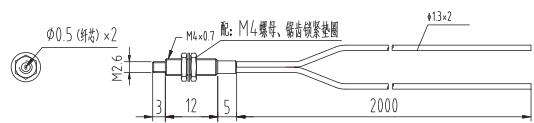
PR-63T



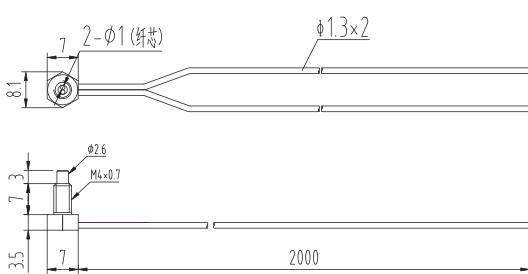
PR-65X



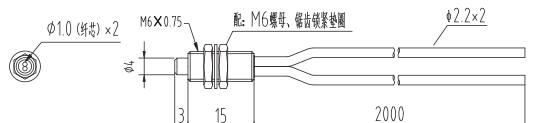
PR-66/PR-66Z



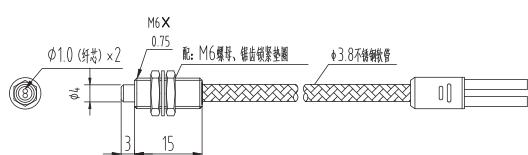
PR-66TZ



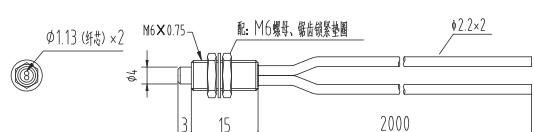
PR-6F



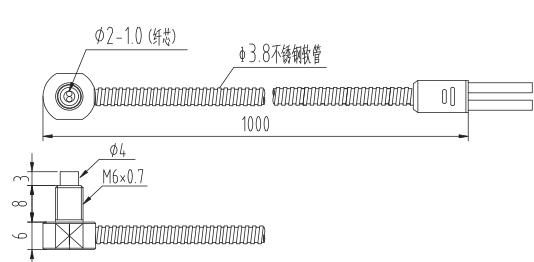
PR-67G



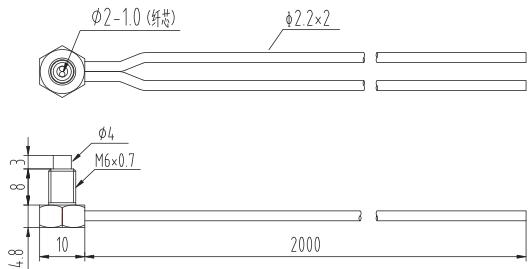
PR-67



PR-67TG



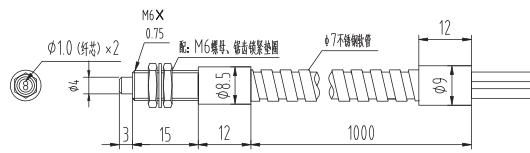
PR-67TZ



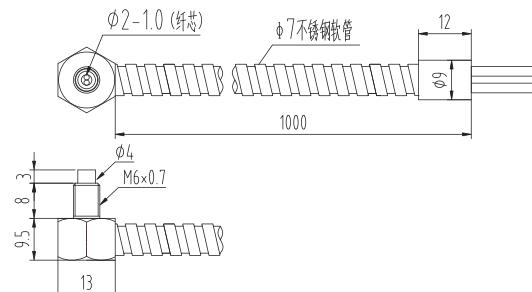
Refective Sensor

(单位: mm)

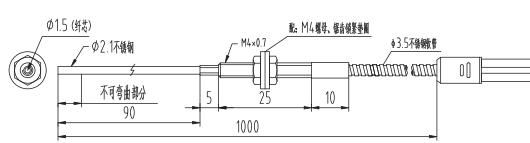
PR-67MG



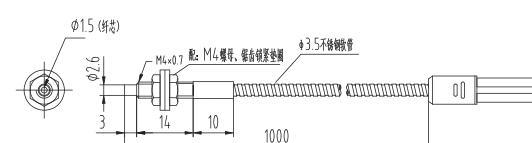
PR-67MTG



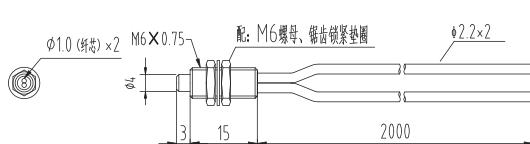
GR-82C



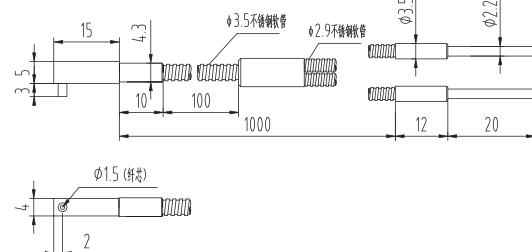
GR-83C



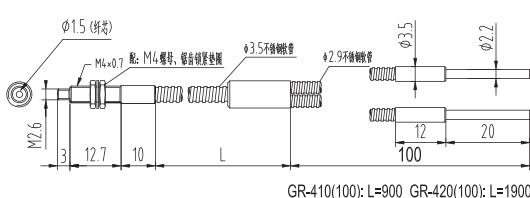
PR-85A



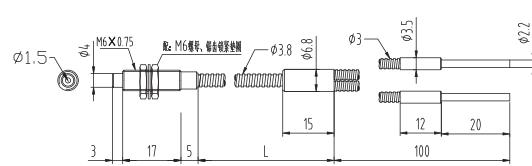
GR-11-10



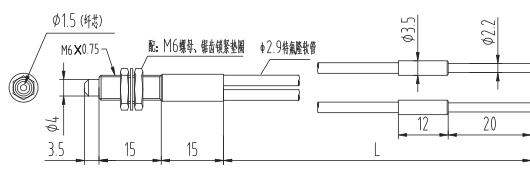
GR-410(100) / GR-420(100)



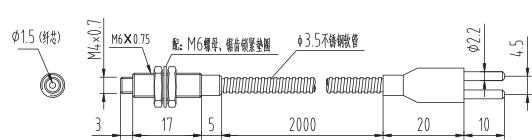
GR-610(100) / GR-620(100)



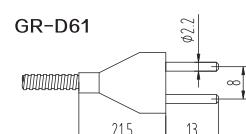
GR-610FP / GR-620FP



GR-D61-S / GR-D61



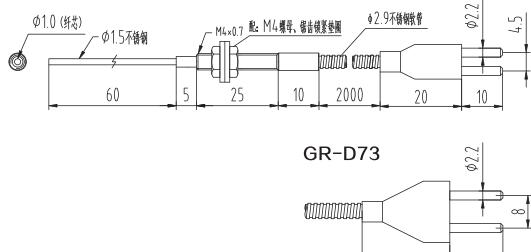
GR-D61



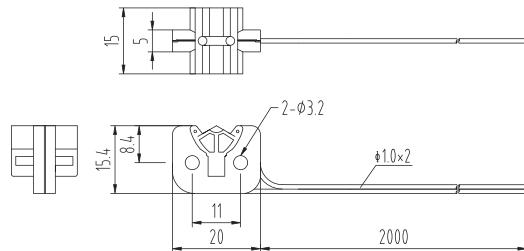
Reflective Sensor

(单位: mm)

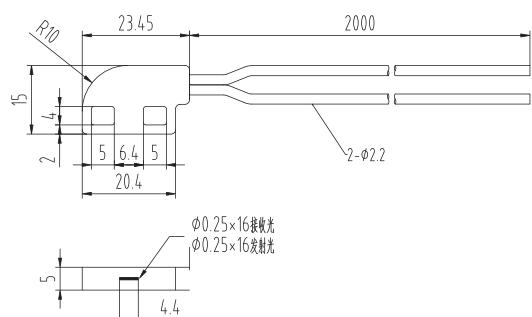
GR-D73-S / GR-D73



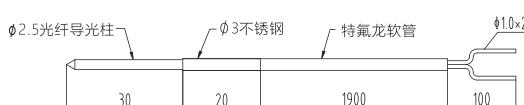
PR-95 / PR-95HA



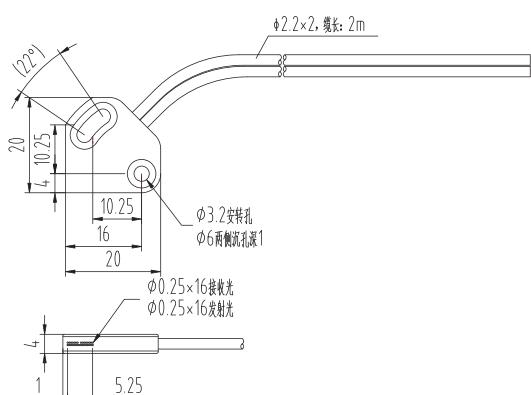
PR-D36T-OM



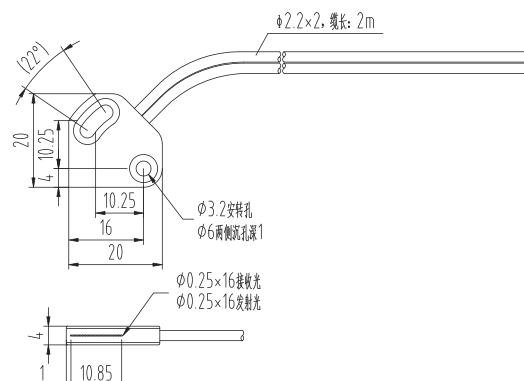
PR-320-SQ



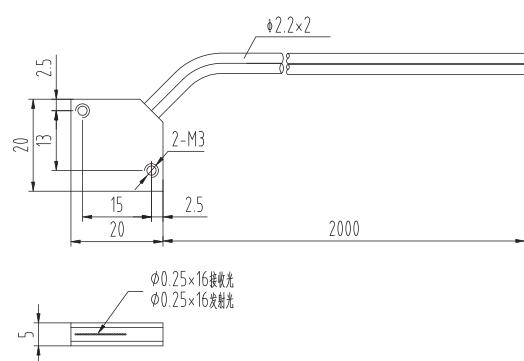
PR-A05D



PR-A10D



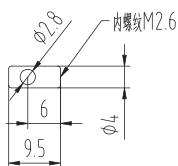
PR-AL11-PA



(单位: mm)

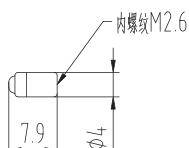
Lens

F-1



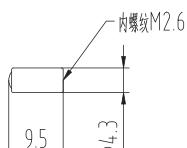
参数说明：侧视镜头

F-2



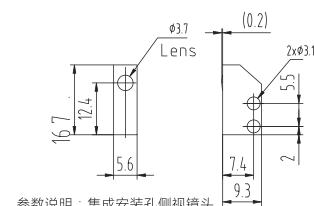
参数说明：长距离检测 孔径角约15°

F-4



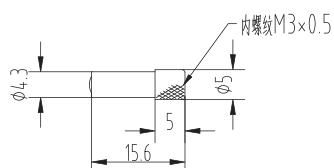
参数说明：超长距离检测 孔径角约8°

F-5



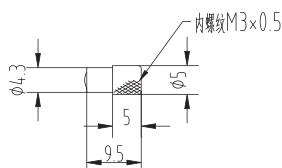
参数说明：集成安装孔侧视镜头

F-2HA



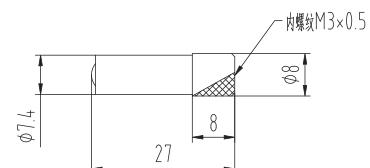
参数说明：小光点型，光点直径约Φ0.1-Φ0.4，焦距7±2

F-3HA



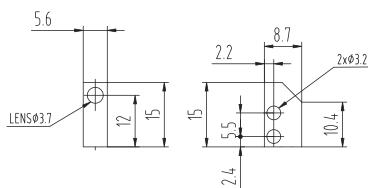
参数说明：平行光点型，光点直径约Φ4，焦距20内

F-4HA



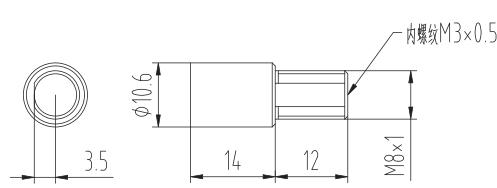
参数说明：小光点型，光点直径约Φ0.5，焦距15±2

F-5HA



参数说明：侧视可调光点，直径Φ0.5至3，焦距8-30

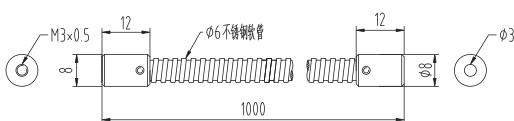
F-6HA



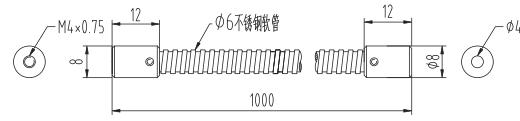
参数说明：小光点型，光点直径约Φ1-Φ2，焦距35±3

Protection tubes

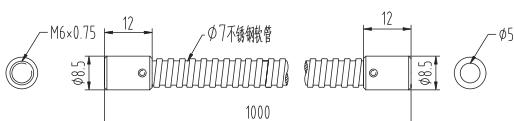
FK-310



FK-410



FK-610





Nanjing Hecho Technology Co., Ltd.

Address: No. 381, Pugang Street, Nanjing, China. ZIP: 211102

Telephone : 86-025-52374096 025-52360905 Fax: 025-52374095

Website: <http://www.gohecho.com>

E mail:sales@gohecho.cn owen@gohecho.com