



光纤传感器 Optical Fiber Sensor



FA 系列


- 同时具备NPN/PNP, NO/NC多种输出模式
 - 具有延时控制调节功能
 - 具有灵敏度调节功能, 用户可根据不同的检测物调节
 - 响应快, 频率高
 - 抗电磁干扰、抗外界光线影响
-
- With NPN/PNP, NO/NC output method at the same time.
 - Adjust function with time delay control.
 - Sensitivity adjust function allowed the user adjust base on the different object.
 - Quickly responses, high frequency
 - Anti-electromagnetic and anti-interference of other lights.



光纤传感器广泛应用于食品, 包装, 电子等自动化行业, 通常用于机械工程和产品制造过程中在空间狭小位置、检测精度要求较高的场合, 起检测、计数、位置控制等作用。

Optical fiber sensors are widely used in food, packaging, electronics and other automation industry. Usually used for mechanical engineering and product manufacturing process a small position in space and high precision of the occasion, from the detection, counting, position control and so on.



- PC透明外壳美观防尘
Beautiful transparent PC housing to prevent dust
- 常开常闭选择
NO 输出 PNP NO 或 NPN NC
NC 输出 PNP NC 或 NPN NO

The selection of NO/NC
NO output PNP NO or NPN NC
NC output PNP NC or NPN NO
- 绿色LED指示灯显示电源状态
红色LED指示灯显示输出状态

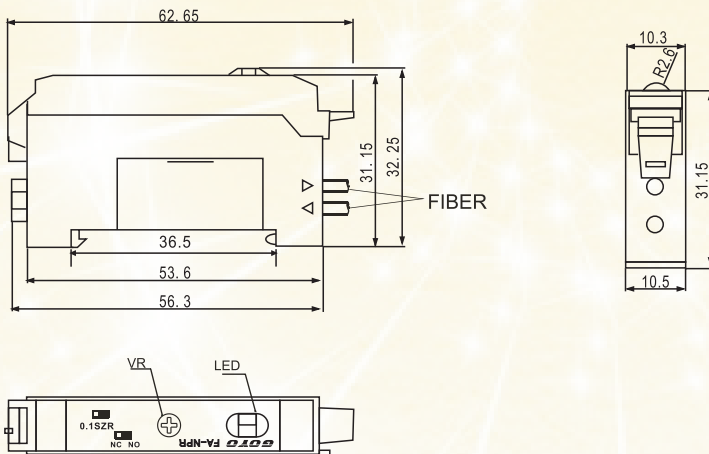
Green LED indicator show the power status
Red LED indicator show the output status
- 调节电位器可控制检测距离
Control the detect distance via adjust potentiometer

温州市光洋工业自动化有限公司
Wenzhou Guangyang Industrial Automation CO., LTD.

型号规格与参数 Parameters

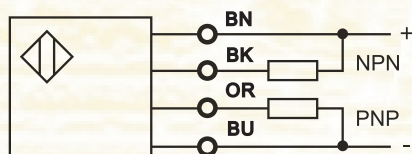
型号 Item code	FA-NPR
检测物体 Sensing object	不透明体 Opaque object
电源电压 Power voltage	12~24VDC ±10%
消耗电流 Current consumption	≤40mA
响应时间 Response time	≤1ms
负载电流 Load current	≤100mA
保护电路 Protection circuit	过载保护, 极性保护 Overload protection, Reverse polarity protection
输出方式 Output	NPN/PNP NO/NC
光源 Light source	红光LED Red light LED
指示灯 Indicator	电源: 绿色LED; 输出: 红色LED Power:green LED; Output:red LED
环境温度 Ambient temperature	0~+50℃ (注意不可结露、结冰 forbidden dewed or iced)
环境湿度 Ambient humidity	35~85%RH
照明度 Intensity of illumination	白炽灯: 受光面照度3,000lx Incandescent lamp: intensity of illumination 3,000lx
耐电压 Withstanding voltage	1000V AC 1min. 50/60HZ
绝缘电阻 Insulation resistance	50MΩ 以上, 基于DC500V的高阻表 Above 50MΩ, base on DC500V megge
耐振动 Anti-vibration	10~50HZ, 双振幅: 0.75mm, X, Y和Z各方向2小时 10~50Hz, double-amplitude; 0.75mm, in each of x, y and z direction for two hours
耐冲击 Anti-concussion	加速度: 500m/s ² (约50G) X, Y和Z各方向3次 Acceleration: 500m/s ² (approx: 50G), for 3 times, in each of x, y and z direction
防护等级 Protection degree	IP65
外壳材料 Materials	PC/ABS
接线方式 Connection	2M PVC电缆 2m PVC cable

尺寸图 Dimensions



电气接线图 Electrical wiring diagram




































NPN/PNP NO/NC






































电缆颜色 (符合DIN IEC 60757)
Cable color (Meet DIN IEC 60757)

BN... 棕 BK..... 黑
BU... 蓝 OR..... 橙

直接反射式、对射式光纤头 Optical fiber sensor- fiber head

检测方式 Detection method	外形 Shape	直径 Dia	检测距离 Sn (mm)	最小检测物 Min. detectable object	最小曲度 Min. curvature	重量 Weight (g)	型号 Item code
		M6	110	Φ0.2	R25	40	PD-610
		Φ5				40	PPD-510
		M4				40	PDB-410
		Φ3				40	PDB-310-Q
		M6	170	Φ0.5	R40	43	PDX-610
		Φ5				40	PDX-510
		M6	100	Φ0.1	R25	40	PDC-610
		M4	50	Φ0.05	R15	35	PDC-410
		M3				33	PDC-310
		Φ3				33	PDC-310-Q
		Φ1				30	PDC7-110-Q20
		M3	16	Φ0.05	R15	30	PDC4-310
		Φ2				30	PDC4-210
		Φ1				30	PDC4-110
		M6	80	Φ0.2	R25	40	PDH-610
		Φ5				40	PDH-510
		M4	40	Φ0.2	R2	40	PDZ-410
		Φ3				40	PDZ-310-Q
		M4	16	Φ0.1	R1	40	PDW-410
		square	16	Φ0.1	R1	40	PDW-11
		M6	100	Φ0.2	R2	45	PDY-610
		M4	6	Φ0.05	R10	33	PDE-410
		M4				35	PDA-410
		M3				33	PDE-310
		M3				33	PDE-310Q
		M4	40	Φ0.1	R15	35	PDA-310
		Φ2				33	PDE-210
		Φ5				36	PDS-510
		M4				33	PDS-410
		M3	80	Φ0.05	R15	33	PDD-410
		M3				33	PDS-310
		Φ2				35	PDD-310
		Φ2				33	PDS-210
		M4	90	Φ1.0	R25	40	PDJ-410
		M3				40	PDJ-310
		Rectangle	50	Φ1.0	R15	60	PD-20ML
		Rectangle	50	Φ1.0	R15	40	PD-10ML

检测方式 Detection method	外形 Shape	直径 Dia	检测距离 Sn (mm)	最小检测物 Min. detectable object	最小曲度 Min. curvature	重量 Weight (g)	型号 Item code
		M 6	500	Φ0.5	R25	49	PT-610
		Φ5				47	PT-510
		M 4				45	PT-410
		M 3				45	PT-310
		M 4	360	Φ0.2	R15	35	PTB-410
		M 3				35	PTB-310
		Φ2				35	PTB-210
		M 4	900	Φ1.0	R40	40	PTJ-410
		Φ2				40	PTJ-210
		Φ5	240	Φ0.5	R25	42	PTX-510
		M 4				42	PTX-410
		M 3	40	Φ0.03	R10	40	PTH-410
		Φ2				35	PTE-310
		Φ1				35	PTA-310
		Φ2				35	PTE-210
		Φ1				33	PTA-210
		Φ1				32	PTE-110
		M 6	300	Φ0.5	R2	47	PTY-610
		M 4				45	PTY-410
		M 3				40	PTY-310
		M 4				40	PTZ-410
		M 3		Φ0.5	R2	40	PTZ-310
		M 4	60	Φ0.05	R1	35	PTW-410
		Φ 1.5	30	Φ0.05	R1	50	TW2-475D
		M 4	110	Φ0.05	R15	35	PTS-410
		M 3				35	PTS-310
		Φ2				35	PTD-310
		Φ1				33	PTD-210
		Φ1				32	PTS-110
		Φ1	100	Φ0.1	R15	30	PTC4-110
		Φ2				33	PTC4-210
		M 3				30	PTC4-310
		Φ 1.5	240	Φ1.0	R15	35	PT-10ML
		Φ 1.5	360	Φ1.0	R25	55	PT-15ML
		Φ 1.5				55	PT-15MLD
		Rectangle				95	PT-20ML



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