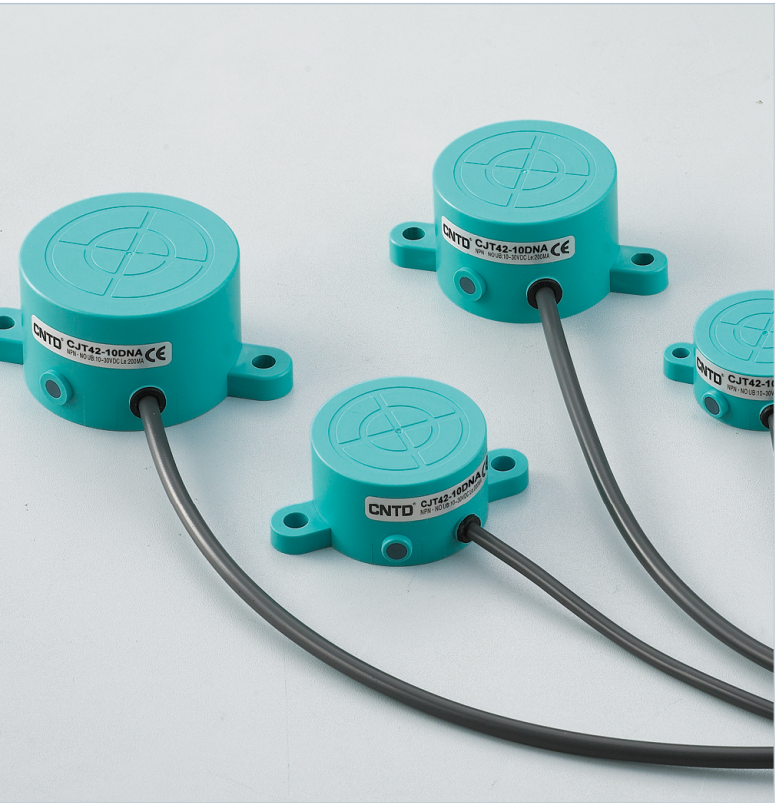




特点 Features

- 内置浪涌保护, 电源反接保护和过流保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色LED状态指示灯, 易于识别运行状态
- IP67防护等级(IEC规格)
- 可以代替微动开关或限位开关广泛使用
- Inside surge protection, reverse polarity protection, overcurrent protection
- Long use-life cycle and high reliability, easy install, enconomic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP67(IEC standard)
- Replaceable for limit switches



CJ T 36 □ - 07 D N A / □ □ - L2

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

序号 No	项目 Item	代号 Code	说明 Description
①	分类代号 Classification code	CJ	电感式 Inductive type
②	外形代号 Shape code	T	圆盘型 Disc type
③	尺寸代码 Size code	36	36=□36、42=□42、48=□48、55=□55
④	产品类别 Product category	无 None	标准型 Normal form
⑤	检测距离 Detection distance	07	07=7mm、10=10mm、15=15mm、20=20mm
⑥	工作电压 Operating voltage	A	90...250VAC
		D	10...30VDC
		E	20...60VDC
		J	5...10VDC
⑦	输出方式 Output mode	N	NPN
		P	PNP
		K	AC 二线 2 Wire
		L	DC 二线 2 Wire
⑧	输出状态 Output state	A	NO
		B	NC
		C	NO+NC
⑨	连接形式 Connection form	无	引线式自由出线端 Lead type free outlet end
		M	M12针式 直头 4芯 A编码 M12 pin straight head 4-core A coding
		M□□□□	M型接插件 M□□□□ M-type connector M□□□□
		D□□□□	DT型接插件 D□□□□ DT connector D□□□□
		A□□□□	AMP型接插件 A□□□□ AMP connector A□□□□
		S□□□□	SM型接插件 S□□□□ SM Connector S□□□□

⑩	电线材质 Wire material	无 None	PVC
		U	PUR
		VP	PVC+屏蔽 Shield
		UP	Shielded PUR
⑪	引线长度 Lead length	L1-L5	L1表示1米线 (线长不限L5) L1 means 1 meter line (line length is not limited to L5)

规格 Specifications

直流3线式 DC 3wire type

型号名 Model	CJT36-07DNA CJT36-07DNB CJT36-07DPA CJT36-07DPB	CJT42-10DNA CJT42-10DNB CJT42-10DPA CJT42-10DPB	CJT48-15DNA CJT48-15DNB CJT48-15DPA CJT48-15DPB	CJT55-20DNA CJT55-20DNB CJT55-20DPA CJT55-20DPB
检测距离 Sensing distance	7mm	10mm	15mm	20mm
应差距离 Hysteresis	检测距离的10%以下 Max. 10% of sensing distance			
标准检测物 Standard sensing target	50×50×1mm (铁 Iron)	55×55×1mm (铁 Iron)	60×60×1mm (铁 Iron)	80×80×1mm (铁 Iron)
设定距离 Setting distance	0~5.5mm	0~7.5mm	0~12.5mm	0~15.5mm
工作电压 Working voltage	10-30VDC			
漏电流 Leakage current	10mA以下 Max.10mA			
应答频率(※1) Response frequency (※1)	300Hz	200Hz	100Hz	100Hz
残留电压(※2) Residual voltage (※2)	1.0V以下 Max. 1.0V			
温度的影响 Affection by Temp	在-25~+70℃温度范围内+20℃时的检测距离的±10%以内 Max. ±10% for sensing distance at ambient temperature 20℃			
控制输出 Control output	200mA以下 Max. 200mA			
绝缘阻抗 Insulation resistance	50MΩ以上(500VDC为基准) Min. 50MΩ(at 500VDC megger)			
耐电压 Dielectric strength	1500VAC 50/60Hz1分钟 1500VAC 50/60Hz for 1minute			
耐振动 Vibration	10~55Hz(周期1分钟) 振幅1mm X, Y, Z各方向2小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours			
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向3次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times			
显示灯 Indicator	动作指示灯(红色LED) Operation indicator(red LED)			
使用周围温度 Ambient temperature	-25~+70℃(未结冰状态 No icing)			
储存温度 Storage temperature	-30~+80℃(未结冰状态 No icing)			
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)			
保护电路 Protection circuit	内置浪涌保护, 电源反接保护, 过流保护电路 Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit			
连接线缆 Cable	φ3.8, 3P, 2m AWG22, 芯线直径:0.1mm, 芯线数:25, 绝缘皮外径: φ1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ1.25		φ4.8, 3P, 2m AWG22, 芯线直径:0.1mm, 芯线数:30, 绝缘皮外径: φ1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ1.25	
材质 Material	外壳: PBT, 一般型线缆(灰色): 聚氯乙烯(PVC) Case: PBT, Standard cable(Grey): Polyvinyl chloride(PVC)			
防护等级 Protection	IP67			

(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的2倍, 设定距离为检测距离的1/2。

(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

规格 Specifications

直流2线式 DC 2-wire type

型号名 Model	CJT36-07DLA CJT36-07DLB	CJT42-10DLA CJT42-10DLB	CJT48-15DLA CJT48-15DLB	CJT55-20DLA CJT55-20DLB
检测距离 Sensing distance	7mm	10mm	15mm	20mm
应差距离 Hysteresis	检测距离的10%以下 Max. 10% of sensing distance			
标准检测物 Standard sensing target	50×50×1mm (铁 Iron)	55×55×1mm (铁 Iron)	60×60×1mm (铁 Iron)	80×80×1mm (铁 Iron)
设定距离 Setting distance	0~5.5mm	0~7.5mm	0~12.5mm	0~15.5mm
工作电压 Working voltage	10-30VDC			
漏电流 Leakage current	0.6mA以下 Max.0.6mA			
应答频率(※1) Response frequency(※1)	300Hz	200Hz	100Hz	100Hz
残留电压(※2) Residual voltage(※2)	3.5V以下 Max. 3.5V			
温度的影响 Affection by Temp	在-25~+70℃温度范围内+20℃时的检测距离的±10%以内 Max. ±10% for sensing distance at ambient temperature 20℃			
控制输出 Control output	200mA以下 Max. 200mA			
绝缘阻抗 Insulation resistance	50MΩ以上(500VDC为基准) Min. 50MΩ(at 500VDC megger)			
耐电压 Dielectric strength	1500VAC 50/60Hz1分钟 1500VAC 50/60Hz for 1minute			
耐振动 Vibration	10~55Hz(周期1分钟) 振幅1mm X, Y, Z各方向2小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours			
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向3次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times			
显示灯 Indicator	动作指示灯(红色LED) Operation indicator(red LED)			
使用周围温度 Ambient temperature	-25~+70℃(未结冰状态 No icing)			
储存温度 Storage temperature	-30~+80℃(未结冰状态 No icing)			
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)			
保护电路 Protection circuit	内置浪涌保护, 电源反接保护, 过流保护电路 Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit			
连接线缆 Cable	φ3.8, 3P, 2m		φ4.8, 3P, 2m	
	AWG22, 芯线直径:0.1mm, 芯线数:25, 绝缘皮外径: φ1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ1.25		AWG22, 芯线直径:0.1mm, 芯线数:30, 绝缘皮外径: φ1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ1.25	
材质 Material	外壳: PBT, 一般型线缆(灰色): 聚氯乙烯(PVC) Case: PBT, Standard cable(Grey): Polyvinyl chloride(PVC)			
防护等级 Protection	IP67			

(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的2倍, 设定距离为检测距离的1/2。

(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

规格 Specifications

交流2线式 AC 2-wire type

型号名 Model	CJT42-10AKA CJT42-10AKB	CJT48-15AKA CJT48-15AKB	CJT55-20AKA CJT55-20AKB
检测距离 Sensing distance	10mm	15mm	20mm
应差距离 Hysteresis	检测距离的10%以下 Max. 10% of sensing distance		
标准检测物 Standard sensing target	55×55×1mm (铁 Iron)	60×60×1mm (铁 Iron)	80×80×1mm (铁 Iron)
设定距离 Setting distance	0~7.5mm	0~12.5mm	0~15.5mm
工作电压 Working voltage	90-250VAC		
漏电流 Leakage current	10mA以下 Max.10mA		
应答频率(※1) Response frequency(※1)	20Hz		
残留电压(※2) Residual voltage(※2)	10V以下 Max. 10V		
温度的影响 Affection by Temp	在-25~+70℃温度范围内+20℃时的检测距离的±10%以内 Max. ±10% for sensing distance at ambient temperature 20℃		
控制输出 Control output	200mA以下 Max. 200mA		
绝缘阻抗 Insulation resistance	50MΩ以上(500VDC为基准) Min. 50MΩ(at 500VDC megger)		
耐电压 Dielectric strength	1500VAC 50/60Hz1分钟 1500VAC 50/60Hz for 1minute		
耐振动 Vibration	10~55Hz(周期1分钟) 振幅1mm X, Y, Z各方向2小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours		
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向3次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times		
显示灯 Indicator	动作指示灯(红色LED) Operation indicator(red LED)		
使用周围温度 Ambient temperature	-25~+70℃(未结冰状态 No icing)		
储存温度 Storage temperature	-30~+80℃(未结冰状态 No icing)		
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)		
保护电路 Protection circuit	内置浪涌保护, 电源反接保护, 过流保护电路 Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit		
连接线缆 Cable	φ3.8, 3P, 2m	φ4.8, 3P, 2m	
	AWG22, 芯线直径:0.1mm, 芯线数:25, 绝缘皮外径: φ1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ1.25	AWG22, 芯线直径:0.1mm, 芯线数:30, 绝缘皮外径: φ1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ1.25	
材质 Material	外壳: PBT, 一般型线缆(灰色): 聚氯乙烯(PVC) Case: PBT, Standard cable(Grey): Polyvinyl chloride(PVC)		
防护等级 Protection	IP67		

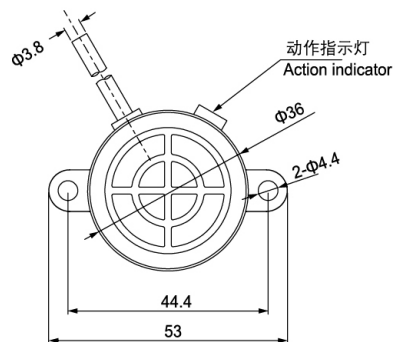
(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的2倍, 设定距离为检测距离的1/2。

(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

外观和尺寸 Appearance and Dimension

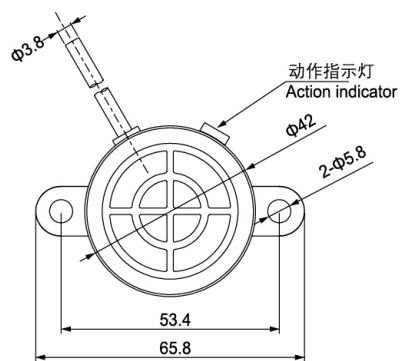
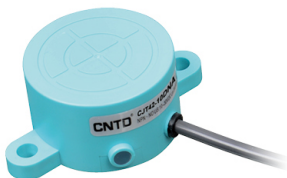
CJT36-07

圆形接近开关
Proximity Sensor
Cylindrical Type



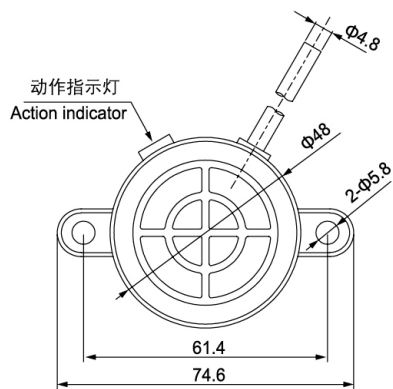
CJT42-10

圆形接近开关
Proximity Sensor
Cylindrical Type



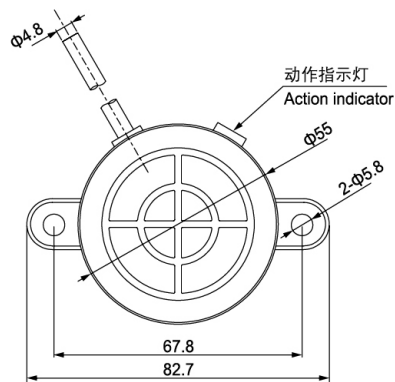
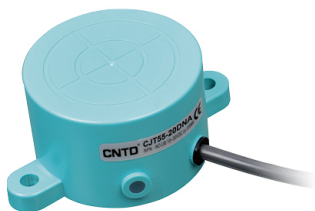
CJT48-15

圆形接近开关
Proximity Sensor
Cylindrical Type



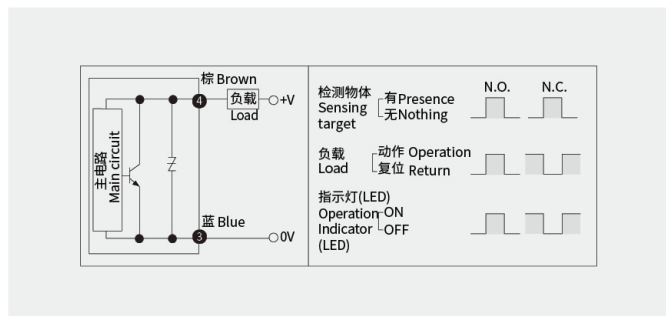
CJT55-20

圆形接近开关
Proximity Sensor
Cylindrical Type

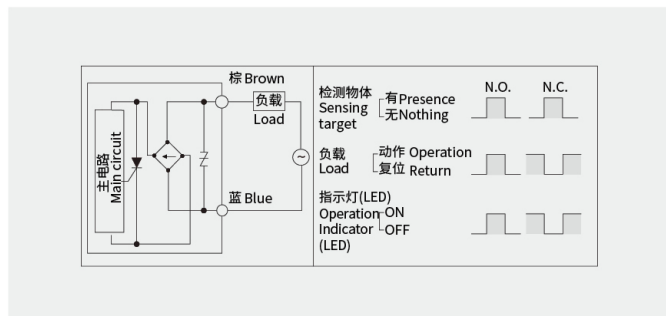


输出电路 Control Output Diagram

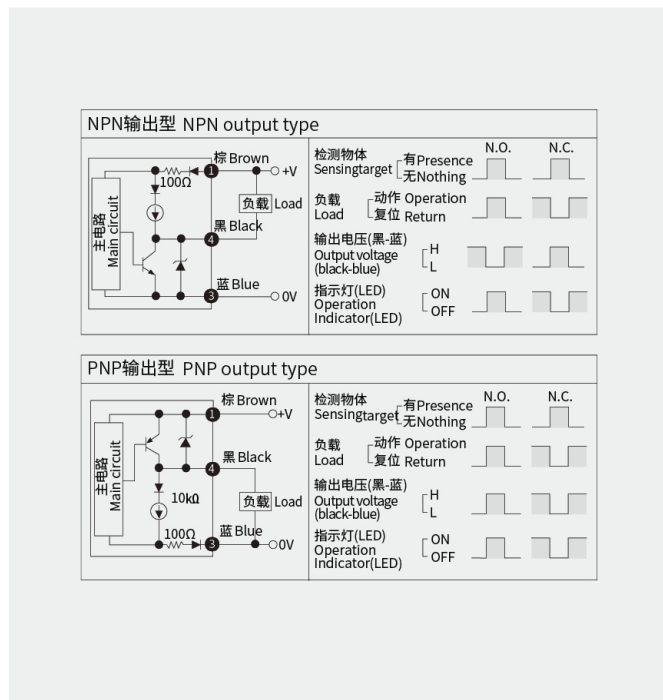
直流2线式 DC 2-wire type



AC two-wire type

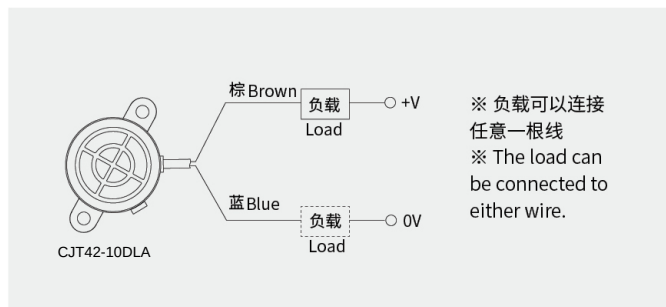


直流3线式 DC 3-wire type

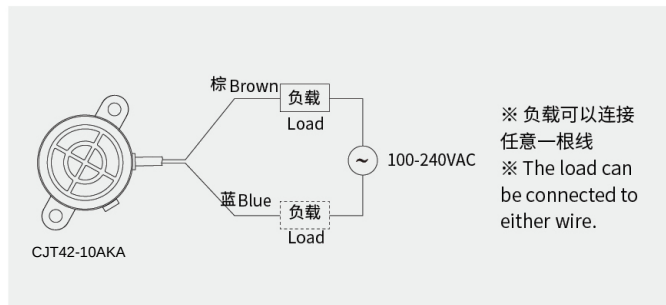


连接 Connections

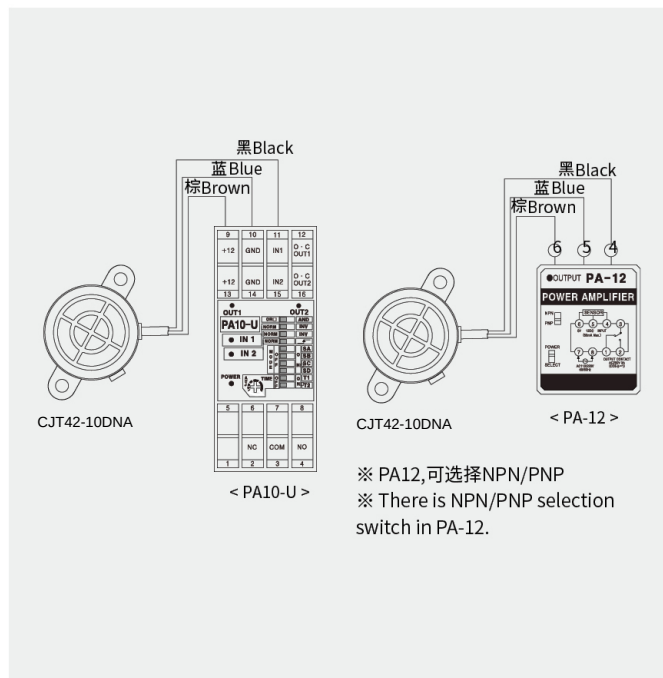
直流2线式 DC 2-wire type



交流2线式 AC 2-wire type



直流3线式 DC 3-wire type



使用注意事项 Using Precautions

本公司产品是作为工业产品而设计生产, 严格遵守工业产品标准。我司明确声明, 除非经过特殊设计并得到我司明确书面确认, 我司产品不适用于以下应用场合:

- 要求极高可靠性的应用场合, 包括核能、燃气、电力等要求长期稳定运行的系统。
- 要求极高安全性的应用场合, 涉及人身安全与财产的情况。
- 苛刻条件、严酷环境的应用场合, 包括室外、存在化学污染、电磁、振动或冲击影响的环境。
- 有火灾或爆炸风险的应用场合, 包括存在易燃易爆性气体、强酸强碱化学品等物质的环境。
- 涉及军工用途、航天航空项目的应用场合。

The company's products are designed and produced as industrial products, in strict compliance with industrial product standards. We expressly declare that, unless specifically designed and expressly confirmed by us in writing, our products are not intended for the following applications:

- Applications that require high reliability, including nuclear, gas, electric and other systems that require long-term stable operation.
- Applications requiring very high security, situations involving personal safety and property.
- Applications in harsh conditions, harsh environments, including outdoor, chemical contamination, electromagnetic, vibration or shock effects.
- Applications where there is a risk of fire or explosion, including environments where flammable and explosive gases, strong acids and alkali chemicals are present.
- Applications involving military use and aerospace projects.