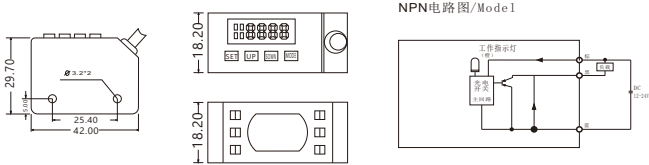


产品参数

型号	BEM-LX-101
类型	NPN输出
控制输出	一个输出口,导线引出式
光源	LED三色光
感应距离	8mm-15mm
反应时间	50US
输出选择	LIGHT-ON/DARK-ON(开关选择)
显示指示器	操作指示灯:红色发光二极管,双重数位监视器:双重7位数显示,阈值(4位数绿色发光二极管体指示器)和当前值(4位数红色发光二极管体指示器)一起点亮。 当前值范围:0-9999
检测方式	C1:颜色模式 C:色标模式 MARK:对比模式
延时功能	断开延时计时器/开启延时计时器/单位计时器/开启单次计时器,可选择。计显示器在持续时间可选择: 1ms至9999ms
控制输出	NPN/PNP开放式集电器24V,最大100mA(只限于主部件) 最大20mA(当扩展部件连接时,残余电压:1V,型号带MZ字样的传感器为模拟量输出,模拟量电压0-5V,检测准确度为千份之一
电源	12-24VDC±10%之间,浮动率(P-P):最大10%等级2
工作环境亮度	白炽灯:最大:20,000lux,日光:最大:30,000lux
功率消耗	标准模式:最大300mW 最大电压:24V
耐振动性	10-55Hz,双重振幅:1.5mm,X,Y,Z轴分别是2小时
工作环境温度	-10+55°C,无结冻

产品尺寸与接线方式



BERM® 颜色色标光电开关使用说明书

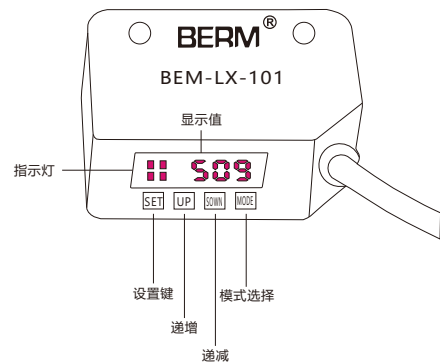
使用说明书(中英文)

注意事项

- ① 本产品仅供目标物检测之用,请勿将本产品用于人体或人体部位等目的。
- ② 本产品不得作为防爆产品使用,请勿在危险场所和/或潜在爆炸气体的环境使用。
- ③ 该产品是DC电源型传感器,请勿使用AC电源,否则会导致产品爆炸或起火。
- ④ 请勿沿电源线或者高压线对传感器进行配线,否则传感器会因噪声发生故障或受损。
- ⑤ 使用商用开关稳压器时,确保将机框接地端子和接地端子接地。
- ⑥ 请勿在室外或者外部光线能够直接进入光接收表面的位置使用。



产品部件说明

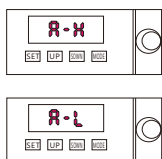


操作设置

	对准目标色按一下SET键,移开再按一下SET键,即可检测目标色
短按一下MODE进入阈值微调 UP-阈值加大 DOWN-阈值减小	
再短按MODE进入常开/常闭切换 don:常开模式, Lon:常开模式 up键/DOWN键 切换常开/常闭	

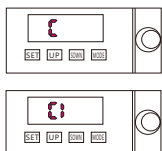
两点校准基于工件有与无施以校准,设定点是上述两种情况下的中间值.如果工件的反光度过弱的情况下会出现“nnnn”,如果反光度过强的情况下会出现“uuuu”,设置方法则参考以下操作。

参数设置



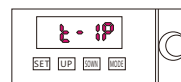
(1) 光源饱和度设置

长按M键3秒以上进入光线饱和度设置,按UP/DOWN进行切换
A-H为标准光源模式
A-L为弱光源模式
(当面板出现uuuu时建议切换A-L)



(2) 模式设置

短按MODE键,按左右键UP或DOWN进行模式切换(C为色标模式
C1为颜色模式
MARK为两点校准模式)



(3) 教导功能切换

模式设置完成之后
短按MODE键教导功能切换
按左右键进行切换, E-1P为一键教导(只需对准目标色按一次SET即可完成设置,改模式只适合在(C模式下使用)



(4) 延时模式

教导模式设置完成后 按一下M键进入延时模式设置
按左右键进行切换, 0.01-9.99秒 可切换EOFF(延时关闭)
OFFD(延时输出)
OND(延时输入)
ONOD(延时输入输出)
按左右键加减小数值
数值10为0.01秒
数值9999为9.9秒

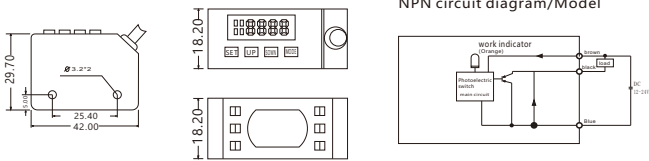
产品保证书

1. 保质期
保质期为一年,从产品发出送到购方指定地点之日算起。
2. 保修范围
(1) 如果上述质保期内出现非人为造成的故障,我们将免费修理产品。但是一下情况不属于保修范围
*未按照使用手册、依据技术手册要求中规定的条件环境下、所进行的不正确的操作,或不正确使用造成的故障。
*故障不是由于产品缺陷,而是购方设备或购方软件设计造成的。
*由购方人员进行修改或修理而造成的故障。
*由于火灾、地震和洪水灾害,或异常电压等外部因素造成的故障,我公司不负责保修。
(2) 保修范围只限于经(1)条规定的情况,本公司对其设备造成的购方间接损失(设备损坏、机会丧失、利润损失)或其他损失不承担任何经济责任。
3. 为提高产品性能进行产品升级等,本说明书的内容可能会有修改,恕不另行通知。

Product parameters

model number	BEM-LX-101
type	NPN output
control output	One output port, lead-out type
light source	LED tri-color light
Sensing distance	8mm-15mm
Reaction time	50US
output selection	LIGHT-ON/DARK-ON (switch selection)
show indicator	Operation indicator: red LED, dual digital monitor: dual 7-digit display, the threshold value (4-digit green LED body indicator) and the current value (4-digit red LED body indicator) are lit together. Current value range: 0-9999
Detection method	C1: Color mode C: Color mark mode MARK: Contrast mode
Delay function	Off-delay timer/on-delay timer/unit timer/on-single timer, selectable. Meter display in duration selectable: 1ms to 9999ms
control output	NPN/PNP open collector 24V, maximum 100mA (only for main part), maximum 20mA (when the expansion part is connected, the residual voltage: 1V. The sensor with the word MZ in the model is an analog output, the analog voltage is 0-5V, and the detection Accuracy is 1 part in a thousand
power supply	Between 12-24VDC±10, floating rate (P-P): 10% max level 2
Working environment brightness	Incandescent: Max: 20,000lux, Daylight: Max: 30,000lux
power consume	Standard mode: 300mW max Maximum voltage: 24V
Vibration resistance	10-55Hz, double amplitude: 1.5mm, X, Y, Z axis are 2 hours respectively
Working temperature	-10+55°C, no freezing

Product size and wiring method

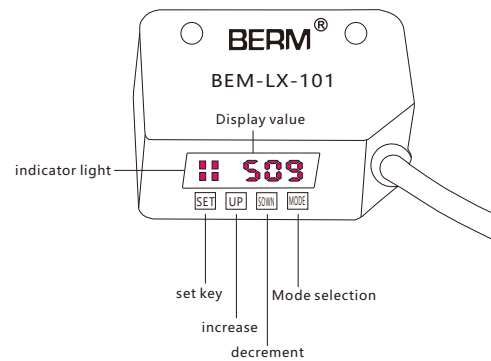


BERM® Color code photoelectric switch instruction manual

Matters needing attention

- ① This product is only used for target detection, please do not use this product for the purpose of human body or human body parts.
- ② This product should not be used as an explosion-proof product, and should not be used in hazardous locations and/or environments with potentially explosive gases.
- ③ This product is a DC power supply type sensor, please do not use AC power supply, otherwise it will cause the product to explode or catch fire.
- ④ Do not wire the sensor along power lines or high-voltage lines, otherwise the sensor may malfunction or be damaged due to noise.
- ⑤ When using a commercial switching regulator, be sure to ground the chassis ground terminal and the ground terminal.
- ⑥ Do not use outdoors or in locations where outside light can directly enter the light-receiving surface.

Product Parts Description

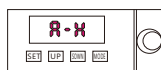


Operation settings

	Aim at the target color and press the SET button, move it away and press the SET button again to detect the target color
Short press MODE to enter the threshold fine-tuning UP-Threshold increase DOWN-threshold decrease	
	Short press MODE again to enter normally open/normally closed switching don: normally closed mode, Lon: normally open mode up key/DOWN key to switch normally open/normally closed

The two-point calibration is based on the presence and absence of the workpiece. The set point is an intermediate value between the above two cases. If the workpiece is too reflective, "nnnn" will appear, and if the workpiece is too reflective, it will appear. "uuuu" appears, please refer to the following operations for the setting method.

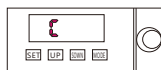
parameter settings



(1) Light source saturation setting

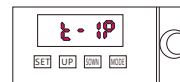
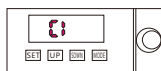
Press and hold the M button for more than 3 seconds to enter light saturation settings, Press UP/DOWN to switch
A-H is the standard light source mode
A-L is low light mode

(It is recommended to switch A-L when the panel appears uuuu)



(2) Mode setting

Short press the MODE button, Press the left and right buttons UP or DOWN to proceed
Mode switch (C is color scale mode
C1 is the color mode
MARK is two-point calibration mode)



(3) Teaching function switching

After the mode setting is completed
Short press the MODE button to teach function switching
Press the left and right keys to switch, E-1P is
One-key teaching (just press the target color once
SET can complete the setting, changing the mode is only suitable for
(Used in C mode)



(4) Delay mode

After the teaching mode is set, press
Press the M key to enter the delay mode setting
Press the left and right keys to switch, 0.01-9.99 seconds to switch
EOFF (Delayed Off)
OFFD (delayed output)
ONOD (delay input)
ONOD (delayed input and output)
Press the left and right keys to add or subtract the red value
A value of 10 is 0.01 seconds
The value 9999 is 9.9 seconds



Product warranty

1. Shelf life
The shelf life is one year from the date of delivery of the product to the place designated by the buyer.
2. Warranty Scope
(1) If there is any non-human-caused failure during the above warranty period, we will repair the product free of charge.
But the following situations are not covered by the warranty
* Failure to follow the conditions specified in the instruction manual, technical manual requirements, incorrect operations, or malfunctions caused by incorrect use.
* Failures are not due to product defects, but to the design of the buyer's equipment or the buyer's software.
* Failures caused by modifications or repairs by the purchaser's personnel.
* Due to the failure caused by fire, earthquake and flood disaster, or abnormal voltage and other external factors, our company is not responsible for the warranty.
(2) The scope of the warranty is limited to the cases specified in (1), and the company does not assume any economic responsibility for the buyer's indirect losses (equipment damage, loss of opportunity, loss of profits) or other losses caused by its equipment.
3. In order to improve product performance and upgrade products, the contents of this manual may be modified without prior notice.