

●2.7色标检测传感器Color scale sensor

色标检测传感器采用光发射接受原理，发出调制光，接收被检测物体的反射光，并根据接收光信号的强弱来区分不同的颜色，或判别物体的存在与否。在包装机械，印刷机械，纺织及造纸机械的自控系统中作为传感器与其他仪表配套使用，对色标，或其它可作为标记的图案色块、线条，或物体的有无进行检测，可实现自动定位、定长、辨色、纠偏、对版、计数等功能。

本系列传感器采用光电技术，半导体电子技术，调制解调技术，具有灵敏度高，响应速度快，抗背景光干扰能力强，结构紧凑，使用方便等特点。

Color scale sensor applies the light emitting and receiving principle. It will send out modulating light, receive the reflecting lights from detected object, and distinguish the color or determine the existence of objects according to the intensity of the receiving signals. It can serve as a sensor used with other instruments in the automatic control systems for packing machinery, printing machinery, texture and paper making machinery, etc., to detect the existence of the object marked with color code, pattern code, line or others. It has the functions of self location, fixing length, distinguishing colors, correction, pattern check and counterling.

The sensor applies optoelectronic technology, semi-conductor electronic technique, and modulation demodulation technology, with highlights of high sensitivity, quick response speed, strong anti-backlight interference, compact structure and convenient operation, etc. 型号、技术参数： Model and technical parameters

ES - 2 1 1 G VA

(1) (2) (3) (4) (5) (6)

(1)色标传感器； Color scale sensor

(2)设计序号； Design code

(3)光路分类Light path: 1、同轴Coaxial 2、非同轴non coaxial

(4)光源分类Light source: 1、单光源Single-light source 2、双光源 Double-light source.

(5)光源颜色分类Color of light source: W:白色光 white light G:绿色光 green light R:红色光 red light B:蓝色光 blue light

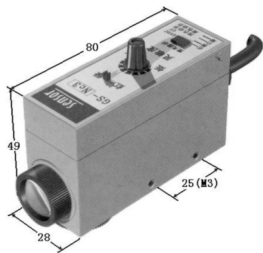
(6)连续信号输出分类 Output of continuous signal: L1: 0~10mA电流输出； 0~10mA current output

L2: 4~20mA 电流输出4~20mA current output

V: 0~5V电平输出0~5V level output

VA: 0~5V加常开输出 0~5V with NO output

VB: 0~5V加常闭输出0~5V with NC output



型号Model		ESB-211G	ESB-211W	ESB-211WG	ESB-211□-VA	ESB-211□-VA	ESB-211□-V	ESB-311□-L1	
光源Light source		绿Green	白White	白、绿 White and green	绿、红、蓝 Green, red and blue 绿、白 Green and white	绿、红、蓝 Green, red and blue 绿、白 Green and white	绿、红、蓝 Green, red and blue 绿、白 Green and white	绿、红、蓝 Green, red and blue 绿、白 Green and white	
响应频率 Response frequency		10KHz							
检测距离 Detection distance		8mm					9mm		
输出形式 Output type	开关输出 Switch output	常开+常闭 (NPN) NO+NC (NPN)			常开NO	常开NO	常开/常闭 NO/NC		
	连续信号 Continuous signal	—			0~5V连续电平信号，内阻10K 0~5V continuous level signal, inner resistance 10K			0~10mA	
开关输出电流 Switch output current		<300mA							
输出特性 Output characteristics		导通电压: <1.0V 截止漏电流: <0.5Ua Turn-on voltage: <1.0V Cutoff leakage current: <0.5Ua							
电源电压及电流 Supply voltage and current		电源电压10~30VDC 工作电流<40mA Supply voltage 10~30VDC Working current <40mA							
保护功能 Protection function		极性保护，过载保护，短路保护 Polarity protection, overload protection and shorcircuit protection							
工作环境 Working environment		温度-5~50 日照 <10000Lux Temperature: -5~50 Sunshine <10000Lux							