

DELS系列 DELS Series

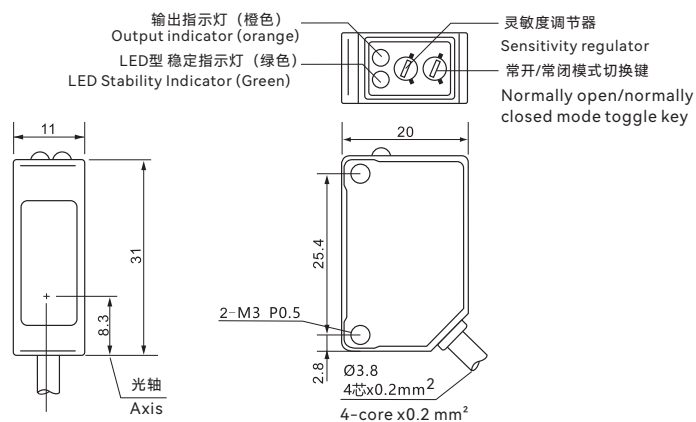


型号 Model	
NPN	DELS-D30N
PNP	DELS-D30P
基本特点 Basic Features	
工作原理 Working principle	光电传感器 Photoelectric Sensors
外壳样式 Enclosure style	方型 Square
光学工作原理 How optics work	漫反射 Reflection
检测距离 Detection distance	10~300mm
光斑尺寸 Spot size	Ø1.5mm/0.30m
检测物 Detection	/
光源 Light source	红色激光650nm,Class 2 Red laser, 650nm Class 2
指示灯 Light	输出功能: 橙色 LED, 运行状态: 绿色 LED Output function: orange LED, operating status: green LED
灵敏性调节 Sensitivity regulation	4圈电位器 4-turn potentiometer
电气数据 Electrical Data	
开关模式 Switch mode	Light.on (入光动作) / D.on (遮光动作) 可切换 Light.on (Light Action) / D.on (shading action) Switchable
输出模式 Output mode	NPN或PNP集电极开路 NPN or PNP open collector
响应时间 Response time	0.33ms
开关频率 Switching frequency	6.06kHz
重复精度 Repeatability	≤5%
迟滞 (回差/应差) Hysteresis (Return/Response)	≤5%
工作电压 Operating voltage	10~30V DC±10%
消耗电流 Current consumption	≤35mA
残余电压 Residual voltage	≤1.5V (100mA)
负载电流 Load current	≤100mA (30VDC)
绝缘电阻 Insulation resistance	电源端子与外壳之间≥50MΩ (500VDC) 50MΩ (500VDC) ≥ between power terminal and housing
耐压 Resistance	1000VAC (50/60Hz), 1 分钟电源端子和外壳之间 1000VAC (50/60Hz), 1 minute between power terminal and housing
保护电路 Protection circuits	反极性保护/短路保护 Reverse polarity protection/short circuit protection
环境条件 Environmental Conditions	
工作环境温度 Operating ambient temperature	-10~50℃ (无冻结) -10~50℃ (no freezing)
储存温度 Storage temperature	-10~70℃ (不结冰) -10~70℃ (non-icing)
工作环境湿度 Humidity of the working environment	35~85%RH (无凝露) 35~85%RH (no condensation)
储存湿度 Store humidity	35~95%RH (无凝露) 35~95%RH (no condensation)
环境照度 Ambient illumination	白炽灯≤3000 Lux; LED灯≤1000 Lux; 太阳光-/≤10000 Lux Incandescent lamp ≤ 3000 Lux; LED lamp ≤ 1000 Lux; Sunlight ≤ 10000 Lux
抗振性 Anti-vibration	10~55Hz, 1.5mm 振幅, X、Y、Z 三个方向各2h 10~55Hz sweep, 1.5mm amplitude, XYZ 3 directions for 2 hours each
防护等级 Ingress protection	IP67
机械数据 Mechanical Data	
最大拧紧扭矩 Maximum tightening torque	≤0.5Nm
连接方式 Connection	2m/3芯电缆 2m/3 core cable
尺寸 (宽x高x深) Size	11.0x31.0x20.0mm
材料 Material	ABS+玻璃纤维 ABS + fiberglass
重量 Weight	0.052kg
配件 Fittings	支架、螺丝 Brackets, screws

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尺寸规格 Dimensions

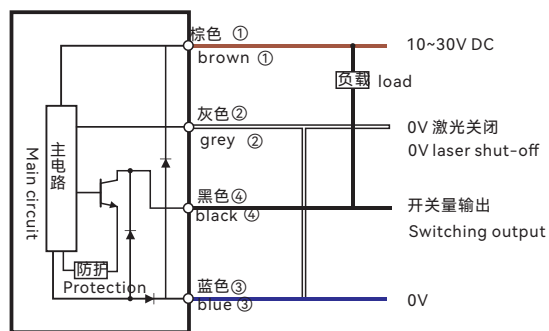
DELS-D30N(P)


单位: mm
Unit: mm

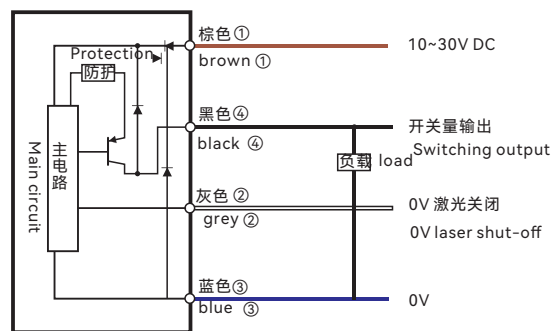
接线示意图 Wiring Diagram

DELS-D30N(P)

NPN 输出 NPN output



PNP 输出 PNP output



DELS-D10