■ Product features

Easy to set up and adjust distance.

Short-circuit protection, reverse polarity protection.

Cable and connector connection optional.

Stainless steel housing, strong and durable. Plastic housing, economical and easy to install

Light on/dark on conversion function.

Built-in power supply, AC, DC or AC/DC universal Power supply.

Relay output, capacity up t0 250VAC*3A.

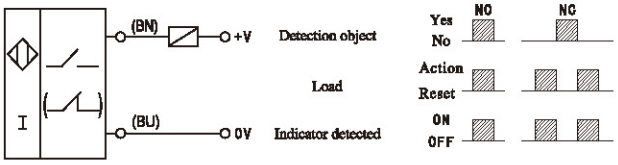
■ Model specification

specification	Menuting	Output	Through-beam type	Retro-reflective type	Diffuse-reflective type
	2M lead wire type	NPN	LRS300P-2000014A	LRS300F-600014A	LRS300D-50014A
		PNP	LRS300P-2000018A	LRS300F-600018A	LRS300D-50018A
	semi-pluggable (30cm)	NPN	LRS300P-2000014C	LRS300F-600014C	LRS300D-50014C
		PNP	LRS300P-2000018C	LRS300F-600018C	LRS300D-50018C
Sensing distance			20m	6m	50cm(The white paper 300X300mm)
Standard detected object			ϕ12mm Min Opaque objects	ϕ75mm Min Opaque objects	/
Spot diameter(typical)			3m distance,diameter7mm		300mmdistance,diameter1mm
Minimum detectable objects(typical)			3mdistance,diameter 8mm Opaque objects		300mm distance,diameter 0.5mm Stainless steel pin gauge
Supply Voltage (V)			DC12-24V ±10% ripple wave (P-P) Max10%		
Movement differential			/		Sensing distance max 5%
Light source (light emitting wavelength)			red LD (655nm), JIS class 1 IEC class 1 FDA class2		
Control output			200mA (receive light ON cover light ON switch can transfer)		
Current consumption			35mA Max (emitter 15mA Max, receiver 20mA Max)	Max 30mA	
Protective circuit			Power reverse connection Output reverse connection Output short circuit protection	Prevent mutual interference, Power reverse connection, Output reverse connection, Output short circuit protection	
Response time			action reset each max 1ms		action reset each max 0.5ms
Sensitivity adjustment			Single coil and single direction of rotation		
Residual voltage			Max 2V		
LED Display			action Yellow LED ,Stability indicating green LED		
Operating Temperature			Working: -10~+55° C, Keeping: -20~+70° C (NO icing NO condensation)		
Withstand voltage			AC1,000V 50/60Hz 1min between the whole and shell		
Vibration			1.5mm amplitude at frequency of 10 to 55Hz(for 1min.) in each of X,Y,Z directions for 2 hours		
Texture			IEC standard IP67,intracompany standard :oil resistant,temperature Resistance		
Protection class		Housing	PBT		
		Lens face	Methyl acrylic resin		
Authentication			CCC CE		

■ Output mode and electrical characteristics

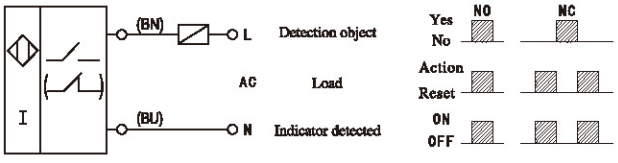
DC two-wire system NO or NC

The load must be connected in series in the sensor to work, there is a polarity and short circuit protection function; in the open circuit state, there is a very small leakage current; in the closed circuit, the switching element has a smaller voltage drop.



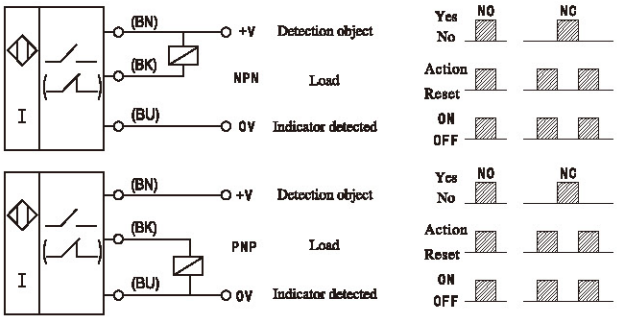
AC two-wire system NO or NC

The load must be connected in series in the sensor, in the closed circuit, the switching element has a smaller voltage drop.



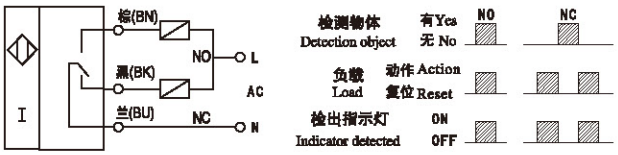
DC three-wire system(N,P type) NO or NC

These switches are connected to the load and power supply separately; the polarity, short circuit and overload protection function, and the residual current can be ignored.



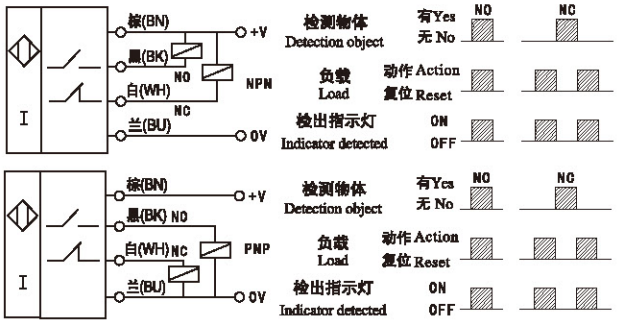
AC three-wire system NO+NC

The switches can provide two groups of output NO and NC



DC four-wire system(N,P type)NO plus NC

The switches can provide two groups of output NO and NC



AC/DC five wire(relay output)NO+NC

These switches can provide to often open,closed two group relay output.