



# Shenzhen Xaori Technology Co.,Ltd

## 深圳市骁锐科技有限公司

benefit	conundrum	Dual output type	Dual output type	Switch output type	Dual output type	Switch output type	Dual output type	Switch output type	Dual output type
Model	NPN output	LE-A030N	LE-A050N	LE-A100N	LE-A100MN	LE-A200N	LE-A200MN	LE-A400N	LE-A400MN
	Output PNP	LE-A030P	LE-A050P	LE-A100P	LE-A100MP	LE-A200P	LE-A200MP	LE-A400P	LE-A400MP
Measuring center distance		30mm	50mm	100mm		200mm		400mm	
measuring range		±5mm	±15mm	±35mm		±80mm		± 200mm	
Repeatability		10μm	30μm	100μm		200μm		400μm (detection distance 200mm~400mm) 800μm (detection distance 400mm~600mm)	
Linearity		±0.1%F.S.		±0.2%F.S.		±0.3%F.S.		±0.2%F.S.	
Temperature characteristic		0.03%F.S./°C							
light source		Maximum output of red semiconductor laser class 2; mW, luminous beam wavelength: 655nm							
Beam diameter		About ∅ 50 μm	about ∅ 70 μm	About ∅ 150 μm		About ∅ 300 μm		About ∅ 500 μm	
Power supply voltage		12V-24V DC±10% pulsation P-P10%							
Power consumption		40mA or less (when the power supply voltage is 24VDC), 60mA or less (when the power supply voltage is 12DC)							
Control output		<p>&lt;NPN output type&gt;</p> <p>NPN open collector transistor</p> <p>·Maximum sink current: 50mA</p> <p>·Applied voltage: below 30VDC</p> <p>(Between control output and 0V)</p> <p>·Residual voltage: 1.5V or less, under current 50mA)</p> <p>·Leakage current: 0.1mA or less</p>				<p>&lt;PNP output type&gt;</p> <p>PNP open collector transistor</p> <p>·Maximum source current: 50mA</p> <p>·Applied voltage: below 30VDC</p> <p>(Control output-between ten V)</p> <p>Residual voltage: 1.5 or less</p> <p>(Under 50mA outflow current)</p> <p>Leakage current: 0.1mA or less</p>			
Output operation		ON when receiving light / ON when not receiving light, switchable							
Short circuit protection		Equipped (automatic recovery type)							
analog	Voltage analog output (in case of alarm: +5.2V)	Output range: 0~5V Output impedance: 100Ω	X	Output range: 0~5V Output impedance:	X	Output range: 0~5V Output impedance: 100Ω	X	Output range: 0~5V Output impedance:	
output	Current analog output (0mA in case of alarm)	Output range: 4~20mA Load impedance: 300Ω or less	X	Output range: 4~20mA Load impedance: 300Ω	X	Output range: 4~20mA Load impedance: 300Ω	X	Output range: 4~20mA Load impedance: 300Ω	
Response time		1.5ms/5ms/10ms switchable							
external input		NPN non-contact input		Effective: 0V~+12V/DC		Input impedance: about 10kΩ			
Protective structure		IP67(IEC)							
Degree of pollution		2							
Ambient temperature		-10°C~+40°C (be careful not to condense or freeze), during storage: -20°C~+60°							
Operating ambient humidity		35%~85%RH, when stored: 35%~85%RH							
Ambient humidity illumination		Incandescent lamp: less than 3,000lx of light-receiving surface illumination							
Operating altitude		Below 2000m							
electric cable		With 0.15mm <sup>2</sup> 5-core composite cable 2m							
texture of wood		Body shell: aluminum casting, front cover: acrylic							
weight		About 35g (excluding cable), about 85g (including cable)							
Applicable specifications		Comply with EMC directives							

Product dimension drawing

