

# **TECHNICAL DATA SHEET**

Inductive Proximity Switches **Proximity Sensors** M30 Series



## Contents

- Functional Description
- Application Scenarios Technical Parameters
- Size Parameters
- Wiring Diagram

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## Proximity sensors: solutions for multiple scenarios

Proximity sensors are widely used in many fields due to their non-contact detection, high accuracy and fast response.

## Inductive series for oil-resistant and corrosion-resistant machine tool industry

Many times we are faced with harsh operating environments, compact installation spaces, and conditions with both movement and corrosion during use, such as the machine tool manufacturing industry, which has such diverse needs - the number of materials, processes and molds involved is huge and varied. During the production process, cutting fluids and abrasives are required to process workpieces, so various sensor solutions that are not affected by harsh environmental conditions are required. dadisick's product series, which uses different manufacturing processes, can even provide fully suitable sensor solutions for high-speed applications or applications involving corrosive coolants and lubricants.



## All-metal integrated housing anti-washing series



Due to the stainless steel integrated housing, this series of sensors not only has good impact resistance, but also can withstand the corrosion of detergents and solvents. It can be used in environments that require frequent high-pressure washing, and can achieve long-term sealing that meets the IP69K protection level. At the same time, it is compatible with the installation method of conventional sensors, which can be replaced and replaced conveniently and practically. It includes a variety of models with a diameter of 8mm...30mm, all with direct cable output and M12 standard connector. Operating distance 2...8mm.

## Low-temperature -40°C inductive series for wind power generation

Wind power generation has become one of the world's recognized main clean energy generation methods because it does not require the use of fuel and does not produce radiation or air pollution. Different sensors are used in the operation of the variable pitch yaw generator reducer of the wind turbine to detect the correction of the control movement and rotation process. Most of the installation locations of wind turbines are in places with severe temperature changes such as mountains, oceans and plateaus, which require higher temperature environments for sensors. Our low-temperature  $-40^{\circ}$  product series launched for this use environment is perfectly adapted to the application here.



# Solutions for high-temperature series long-distance products in steelmaking and rolling



Steelmaking and rolling equipment produces complex oil, gas and water erosion and flushing sensors for various raw materials under high temperature of oil and gas in a high-temperature 2000° radiation environment, which puts higher requirements on the stability of sensors. In the position control detection of multiple processes of steel billets, coils and wires, DADISICK has a variety of series of products with high temperature resistance of 250°C, DC two-wire, AC 250V, etc., which are widely used in this complex environment to ensure normal production.

### Anti-welding slag adhesion, high temperature resistance and anti-interference series

Whether it is stamping, welding, painting, or assembly processes in automobile manufacturing, long distance, anti-welding slag adhesion, strong current magnetic field interference, or high temperature environment, DADISICK sensors can be used for fixtures, molds and other equipment. Reliable performance and perfect solutions bring a smooth production process to automobile manufacturing. In the welding of various high-current welding machines, the strong magnetic field interference generated by the current and the high-temperature heat conduction generated by the arc will affect the sensors in the fixture molds. Reliable performance products must be selected to ensure normal operation.





### All-metal integrated housing anti-washing series

A large number of intelligent warehousing and logistics facilities, such as AGV trolleys and rail-to-rail stackers, are equipped with our sensors to realize the control of rotating positioning and lifting devices, etc., providing very stable and durable high-reliability products. Under the high requirements of small installation space and long detection distance, this series of products is the best choice for customers with strict cost control.

### High-pressure 1000Bar hydraulic cylinder series

The stable and reliable hydraulic cylinder telescopic more often uses DADISICK's inductive proximity sensors with a high pressure resistance of up to 1000Bar to achieve the control of the origin. Ceramic chips are used as high-voltage products at the induction level and stainless steel integrated housings are used to achieve high-pressure resistant applications. DC10-30V two-wire and three-wire products are also provided.



### Analog output series for position correction and control devices



In detecting the offset position of the controlled parts of the fixture, analog output proximity sensors are often used in wire reel correction, and the size of the offset is controlled by the size of the detection distance. This use can be installed and tested in a very small position space. We have successfully provided stable and accurate products for many parts manufacturers and wire rope winding equipment, including 0-10V voltage output and 4-20mA current output and current + voltage output products. The detectable distance can be adjusted between 0-50mm.

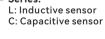
# Shoemaking, textile and papermaking machinery series products

Whichever manufacturer of shoemaking machines, textile machines and papermaking machines has long equipped the mechanical equipment they produce with more automated operation technologies, these control technologies are also equipped with high-quality sensors to achieve their control conditions. They require products with higher switching frequency accuracy and better stability, and they need a variety of products with unconventional dimensions. We tailor new outer shell dimensions for them one by one to meet their needs.



## **Proximity Sensor Model Specifications**

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						T	T	Γ	Т	T		- Special Instructions
												- <b>Shell material:</b> H: nickel-plated brass; S: stainless steel; P: plastic; T: Teflon; L: aluminum alloy
												<ul> <li>Short circuit protection:</li> <li>A: Standard type with short circuit protection</li> <li>M: Short type with short circuit protection</li> <li>S: Standard type without short circuit protection</li> <li>R: Ultra short type with short circuit protection</li> </ul>
												- Wiring method: 2: 2-wire 5: 5-wire type 2E: 2 wire+M8 connector 2T: 2 wire+M12 connector 3: 3-wire E: M8 connector 3E: 3 wire+M8 connector 3T: 3 wire+M12 connector
												4: 4-wire T: M12 connector 4E: 4 wire+M8 connector 4T: 4 wire+M12 connector
												- Voltage: A:DC10-30V B:DC5-36V C:DC10-55V D:DC10-60V E:DC18-30V F:DC6-12V G:AC20-250V H:AC/DC20-250V
												Installation method: A: Shielded B: Non-shielded
												- Connection method: Y: Plug-in type Z: Cable type
												- <b>Output mode:</b> NC: NPN NC; NO: NPN NO PC: PNP NC; PO: PNP NO NS: NPN NO&NC PS: PNP NO&NC
												HC: DC NC; HO: DC NO AC: AC NC; AO: AC NO HS: DC NO&NC AS: AS NO&NC I: analog current; U: analog voltage
												TC: AC&DC NC; TO: AC&DC NO
												V: Current + voltage output NA: Explosion-proof type
												- Detection distance: 1mm-50mm
												- <b>Specification(mm)</b> : φ3, φ4, M4, M5, φ6.5, M8, M12, M18, M30
												- <b>Type:</b> R: Standard type; X: Ultra-small;
												B: Explosion-proof type;
												J: All-metal type; P: High-pressure resistant type;
												G: High-temperature resistant; Z: Low-temperature resistant type;
												C: Limit switch type;
												D: Anti-welding slag and high-magnetic type; F: Corrosion-resistant type;
												A: Analog type;
												l: Ring type; E: Square type
												- Series:





## M30 Series

## Proximity sensors

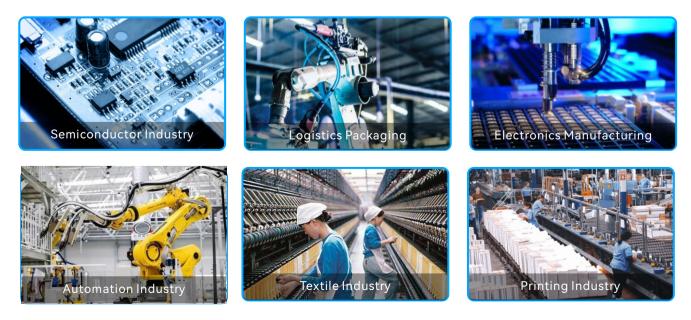
This series features ultra-compact size, long detection distance, and ultra-high precision. It is ideal for small-sized precision instruments and equipment.

## **Features:**

- ·Features: wide range, long sensing distance, high accuracy
- ·Sensing distance: 1-50mm
- · Frequency: 2-3 KHZ
- ·Certificates: CE, ROHS



## **Application Industry**



#### **Product Parameters** -M30 -M30-1515 55 55 55 55 ٢ 10 40 Size category M30 M30 Shielded **O** Non-shielded 0 Ο Sn: mm 10 mm 15 mm 16 mm 25 mm Nickel-plated brass Nickel-plated brass Shell material LED display ○ No LED display 10-30VDC / 5-36VDC / 10-55VDC / 10-60VDC 10-30VDC / 5-36VDC / 10-55VDC / 10-60VDC **Operating voltage** Allowable pulsating voltage <10% <10% No-load current <10mA <10mA Maximum load current 200mA 200mA Leakage current <0.01mA <0.01mA Voltage drop <1.5V <2.0V Switching frequency 300HZ 100HZ 150HZ 150HZ Response time 0.5ms 1ms 1ms 1ms <15%(Sr) <15%(Sr) Switching hysteresis Repeat accuracy <1.0%(Sr) <1.0%(Sr) **Protection level IP67 IP67** -25°C - +70°C -25°C - +70°C **Operating temperature** <10%(Sr) Temperature drift <10%(Sr) Short circuit protection/reverse polarity protection Yes Yes **Overload protection current** 220mA 220mA Sensing surface material PBT PBT **Connection method** 2m oil-proof PVC cable 2m oil-proof PVC cable 5. 0 \$\phi\$ 3x0.34/5. 0 \$\phi\$ 4x0.25 5. $0 \oplus 3x 0.34/5$ . $0 \oplus 4x 0.25$ Product Model DC 3 wire 10-30V NPN NO LR30-10NO-ZAA-3A-H LR30-15NO-ZBA-3A-H LR30-16NO-ZAA-3A-H LR30-25NO-ZBA-3A-H DC 3 wire 10-30V NPN NC LR30-10NC-ZAA-3A-H LR30-15NC-ZBA-3A-H LR30-16NC-ZAA-3A-H LR30-25NC-ZBA-3A-H LR30-10PO-ZAA-3A-H LR30-15PO-ZBA-3A-H LR30-16PO-ZAA-3A-H LR30-25PO-ZBA-3A-H DC 3 wire 10-30V PNP NO DC 3 wire 10-30V PNP NC LR30-10PC-ZAA-3A-H LR30-15PC-ZBA-3A-H LR30-16PC-ZAA-3A-H LR30-25PC-ZBA-3A-H DC 4 wire 10-30V Convertible PNP (NO&NC) LR30-16PS-ZAA-4A-H LR30-25PS-ZBA-4A-H LR30-10PS-ZAA-4A-H LR30-15PS-ZBA-4A-H DC 4 wire 10-30V Convertible NPN (NO&NC) LR30-10NS-ZAA-4A-H LR30-15NS-ZBA-4A-H LR30-16NS-ZAA-4A-H LR30-25NS-ZBA-4A-H LR30-10HO-ZAD-2A-H LR30-15HO-ZBD-2A-H LR30-16HO-ZAD-2A-H LR30-25HO-ZBD-2A-H DC 2 wire 10-60V NO DC 2 wire 10-60V NC LR30-10HC-ZAD-2A-H LR30-15HC-ZBD-2A-H LR30-16HC-ZAD-2A-H LR30-25HC-ZBD-2A-H LR30-10NO-ZAC-3A-H LR30-15NO-ZBC-3A-H LR30-16NO-ZAC-3A-H LR30-25NO-ZBC-3A-H DC 3 wire 10-55V NPN NO DC 3 wire 10-55V NPN NC LR30-10NC-ZAC-3A-H LR30-15NC-ZBC-3A-H LR30-16NC-ZAC-3A-H LR30-25NC-ZBC-3A-H LR30-15PO-ZBC-3A-H LR30-16PO-ZAC-3A-H LR30-25PO-ZBC-3A-H DC 3 wire 10-55V PNP NO LR30-10PO-ZAC-3A-H LR30-15PC-ZBC-3A-H DC 3 wire 10-55V PNP NC LR30-10PC-ZAC-3A-H LR30-16PC-ZAC-3A-H LR30-25PC-ZBC-3A-H DC 3 wire 5-36V NPN NO LR30-10NO-ZAB-3A-H LR30-15NO-ZBB-3A-H LR30-16NO-ZAB-3A-H LR30-25NO-ZBB-3A-H DC 3 wire 5-36V NPN NC LR30-10NC-ZAB-3A-H LR30-15NC-ZBB-3A-H LR30-16NC-ZAB-3A-H LR30-25NC-ZBB-3A-H DC 3 wire 5-36V PNP NO LR30-10PO-ZAB-3A-H LR30-15PO-ZBB-3A-H LR30-16PO-ZAB-3A-H LR30-25PO-ZBB-3A-H DC 3 wire 5-36V PNP NC LR30-10PC-ZAB-3A-H LR30-15PC-ZBB-3A-H LR30-16PC-ZAB-3A-H LR30-25PC-ZBB-3A-H LR30-10PS-ZAB-4A-H LR30-16PS-ZAB-4A-H LR30-25PS-ZBB-4A-H DC 4 wire 5-36V Convertible PNP (NO&NC) LR30-15PS-ZBB-4A-H DC 4 wire 5-36V Convertible NPN (NO&NC) LR30-10NS-ZAB-4A-H LR30-15NS-ZBB-4A-H LR30-16NS-ZAB-4A-H LR30-25NS-ZBB-4A-H

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LR30-22NS-ZBB-4A-H

LR30-40NS-ZBB-4A-H

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#### **Product Parameters** -M30--M30-15 15 r ٢ 78 78 78 ٦ 78 15 15 4LE D 4Ϊ F D M12x1-M12x1-M12x1 M12x1 Size category M30 M30 Shielded O Non-shielded 0 0 Sn: mm 10 mm 15 mm 25 mm 16 mm Nickel-plated brass Shell material Nickel-plated brass LED display ○ No LED display **Operating voltage** 10-30VDC / 5-36VDC / 10-55VDC / 10-60VDC 10-30VDC / 5-36VDC / 10-55VDC / 10-60VDC

Allowable pulsating voltage	<10	%	<10%			
No-load current	<10	mA	<10mA			
Maximum load current	200	ImA	200mA			
Leakage current	<0.0	)1mA	<0.01mA			
Voltage drop	<1.5	V	<2.0V			
Switching frequency	300HZ	150HZ	150HZ	100HZ		
Response time	0.5ms	1ms	1ms	1ms		
Switching hysteresis	<15	%(Sr)	<15%(Sr)			
Repeat accuracy	<1.(	)%(Sr)	<1.0%(Sr)			
Protection level	IP6	7	IP67			
Operating temperature	-25 <sup>°</sup>	C - +70 <sup>°</sup> C	-25°	-25°C - +70°C		
Temperature drift	<10	%(Sr)	<10%(Sr)			
Short circuit protection/reverse polarity protection	Ye	S	Ye	Yes		
Overload protection current	220	ImA	220mA			
Sensing surface material	PB	Т	РВТ			
Connection method	M12 Coni	nectors	M12 Connectors			
Product Model						
DC 3 wire 10-30V NPN NO	LR30-10NO-YAA-TA-H	LR30-15NO-YBA-TA-H	LR30-16NO-YAA-TA-H	LR30-25NO-YBA-TA-H		
DC 3 wire 10-30V NPN NC	LR30-10NC-YAA-TA-H	LR30-15NC-YBA-TA-H	LR30-16NC-YAA-TA-H	LR30-25NC-YBA-TA-H		
DC 3 wire 10-30V PNP NO	LR30-10PO-YAA-TA-H	LR30-15PO-YBA-TA-H	LR30-16PO-YAA-TA-H	LR30-25PO-YBA-TA-H		
DC 3 wire 10-30V PNP NC	LR30-10PC-YAA-TA-H	LR30-15PC-YBA-TA-H	LR30-16PC-YAA-TA-H	LR30-25PC-YBA-TA-H		
DC 4 wire 10-30V Convertible PNP (NO&NC)	LR30-10PS-YAA-TA-H	LR30-15PS-YBA-TA-H	LR30-16PS-YAA-TA-H	LR30-25PS-YBA-TA-H		
DC 4 wire 10-30V Convertible NPN (NO&NC)	LR30-10NS-YAA-TA-H	LR30-15NS-YBA-TA-H	LR30-16NS-YAA-TA-H	LR30-25NS-YBA-TA-H		
DC 2 wire 10-60V NO	LR30-10HO-YAD-TA-H	LR30-15HO-YBD-TA-H	LR30-16HO-YAD-TA-H	LR30-25HO-YBD-TA-H		
DC 2 wire 10-60V NC	LR30-10HC-YAD-TA-H	LR30-15HC-YBD-TA-H	LR30-16HC-YAD-TA-H	LR30-25HC-YBD-TA-H		
DC 3 wire 10-55V NPN NO	LR30-10NO-YAC-TA-H	LR30-15NO-YBC-TA-H	LR30-16NO-YAC-TA-H	LR30-25NO-YBC-TA-H		
DC 3 wire 10-55V NPN NC	LR30-10NC-YAC-TA-H	LR30-15NC-YBC-TA-H	LR30-16NC-YAC-TA-H	LR30-25NC-YBC-TA-H		
DC 3 wire 10-55V PNP NO	LR30-10PO-YAC-TA-H	LR30-15PO-YBC-TA-H	LR30-16PO-YAC-TA-H	LR30-25PO-YBC-TA-H		
DC 3 wire 10-55V PNP NC	LR30-10PC-YAC-TA-H	LR30-15PC-YBC-TA-H	LR30-16PC-YAC-TA-H	LR30-25PC-YBC-TA-H		
DC 3 wire 5-36V NPN NO	LR30-10NO-YAB-TA-H	LR30-15NO-YBB-TA-H	LR30-16NO-YAB-TA-H	LR30-25NO-YBB-TA-H		
DC 3 wire 5-36V NPN NC	LR30-10NC-YAB-TA-H	LR30-15NC-YBB-TA-H	LR30-16NC-YAB-TA-H	LR30-25NC-YBB-TA-H		
DC 3 wire 5-36V PNP NO	LR30-10PO-YAB-TA-H	LR30-15PO-YBB-TA-H	LR30-16PO-YAB-TA-H	LR30-25PO-YBB-TA-H		
DC 3 wire 5-36V PNP NC	LR30-10PC-YAB-TA-H	LR30-15PC-YBB-TA-H	LR30-16PC-YAB-TA-H	LR30-25PC-YBB-TA-H		
DC 4 wire 5-36V Convertible PNP (NO&NC)	LR30-10PS-YAB-TA-H	LR30-15PS-YBB-TA-H	LR30-16PS-YAB-TA-H	LR30-25PS-YBB-TA-H		

LR30-10NS-YAB-TA-H LR30-15NS-YBB-TA-H

LR30-16NS-YAB-TA-H

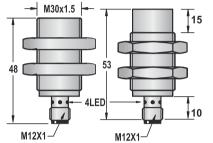
LR30-25NS-YBB-TA-H

#### **Product Parameters** -M30-► -M30→ 15 15 ſ C ٢ ٦ ٢ ſ 78 78 78 78 ſ ſ 15 15 Φ--РОТ 4LE D 4LE D M12x1-M12x1\_ M12x1 M12x1\_

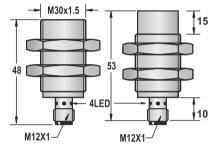
Size category	Μ	30	M 30		
● Shielded 🛛 ○ Non-shielded 🛛 ⊖ Semi-shielded	e e e e e e e e e e e e e e e e e e e	0	$\Theta$	0	
Sn: mm	22 mm	40 mm	25 mm	50 mm	
Shell material	Nickel-pla	ted brass	Nickel-plated brass		
LED display     O No LED display		)			
Operating voltage	10-30VDC / 5-36VDC /	10-55VDC / 10-60VDC	10-30VDC / 10-60VDC		
Allowable pulsating voltage	<10		<10%		
No-load current	<10	)mA	<10mA		
Maximum load current	200	0mA	200mA		
Leakage current	<0.0	01mA	<0.01mA		
Voltage drop	<2.0	0V	<2.0	V	
Switching frequency	150HZ	100HZ	150HZ	100HZ	
Response time	1ms	1ms	1ms	1ms	
Switching hysteresis	<15	5%(Sr)	<15	%(Sr)	
Repeat accuracy	<1.1	0%(Sr)	<1.0%(Sr)		
Protection level	IP6		IP67		
Operating temperature	-25 <sup>°</sup>	°C - +70 °C	-25°C - +70°C		
Temperature drift	<10	9%(Sr)	<10%(Sr)		
Short circuit protection/reverse polarity protection	Y	es	Yes		
Overload protection current	220	0mA	220mA		
Sensing surface material	PB	т	PBT		
Connection method	M12 Con	nectors	M12 Connectors		
Product Model					
DC 3 wire 10-30V NPN NO	LR30-22NO-YAA-TA-H	LR30-40NO-YBA-TA-H	LR30-25NO-YAA-TA-H	LR30-50NO-YBA-TA	
DC 3 wire 10-30V NPN NC	LR30-22NC-YAA-TA-H	LR30-40NC-YBA-TA-H	LR30-25NC-YAA-TA-H	LR30-50NC-YBA-TA	
DC 3 wire 10-30V PNP NO	LR30-22PO-YAA-TA-H	LR30-40PO-YBA-TA-H	LR30-25PO-YAA-TA-H	LR30-50PO-YBA-TA	
DC 3 wire 10-30V PNP NC	LR30-22PC-YAA-TA-H	LR30-40PC-YBA-TA-H	LR30-25PC-YAA-TA-H	LR30-50PC-YBA-TA	
DC 4 wire 10-30V Convertible PNP (NO&NC)	LR30-22PS-YAA-TA-H	LR30-40PS-YBA-TA-H			
DC 4 wire 10-30V Convertible NPN (NO&NC)	LR30-22NS-YAA-TA-H	LR30-40NS-YBA-TA-H			
DC 2 wire 10-60V NO	LR30-22HO-YAD-TA-H	LR30-40HO-YBD-TA-H	LR30-25HO-YAD-TA-H	LR30-50HO-YBD-T/	
DC 2 wire 10-60V NC	LR30-22HC-YAD-TA-H	LR30-40HC-YBD-TA-H	LR30-25HC-YAD-TA-H	LR30-50HC-YBD-T/	
DC 3 wire 10-55V NPN NO	LR30-22NO-YAC-TA-H	LR30-40NO-YBC-TA-H			
DC 3 wire 10-55V NPN NC	LR30-22NC-YAC-TA-H	LR30-40NC-YBC-TA-H			
DC 3 wire 10-55V PNP NO	LR30-22PO-YAC-TA-H	LR30-40PO-YBC-TA-H			
DC 3 wire 10-55V PNP NC	LR30-22PC-YAC-TA-H	LR30-40PC-YBC-TA-H			
DC 3 wire 5-36V NPN NO	LR30-22NO-YAB-TA-H	LR30-40NO-YBB-TA-H			
DC 3 wire 5-36V NPN NC	LR30-22NC-YAB-TA-H	LR30-40NC-YBB-TA-H			
DC 3 wire 5-36V PNP NO	LR30-22PO-YAB-TA-H	LR30-40PO-YBB-TA-H			
DC 3 wire 5-36V PNP NC	LR30-22PC-YAB-TA-H	LR30-40PC-YBB-TA-H			
DC 4 wire 5-36V Convertible PNP (NO&NC)	LR30-22PS-YAB-TA-H	LR30-40PS-YBB-TA-H			
DC 4 wire 5-36V Convertible NPN (NO&NC)	LR30-22NS-YAB-TA-H	LR30-40NS-YBB-TA-H			

## **Product Parameters**









		WIZAI			
Size category	М	30	M30		
Shielded O Non-shielded	•	0	•	0	
Sn: mm	10 mm	15 mm	16 mm	25 mm	
Shell material	Nickel-pla	ted brass	Nickel-plated brass		
● LED display ○ No LED display					
Operating voltage	10-30VDC / 5-36VDC /	10-55VDC / 10-60VDC	10-30VDC / 5-36VDC / 10-55VDC / 10-60VDC		
Allowable pulsating voltage	<1(		<10%		
No-load current	<10	)mA	<10mA		
Maximum load current	20	0mA	200mA		
Leakage current	<0.	01mA	<0.01mA		
Voltage drop	<1.5	5V	<2.0	V	
Switching frequency	300HZ	150HZ	150HZ	100HZ	
Response time	0.5ms	1ms	1ms	1ms	
Switching hysteresis	<15	5%(Sr)	<15%(Sr)		
Repeat accuracy	<1.	0%(Sr)	<1.0%(Sr)		
Protection level	IP6		IP67		
Operating temperature	-25 <sup>°</sup>	°C - +70 °C	-25°C - +70°C		
Temperature drift	<10	9%(Sr)	<10%(Sr)		
Short circuit protection/reverse polarity protection	Y	es	Yes		
Overload protection current	22	OmA	220mA		
Sensing surface material	PB	т	PBT		
Connection method	M12 Con	nectors	M12 Con	nectors	
Product Model					
DC 3 wire 10-30V NPN NO	LR30-10NO-YAA-TM-H	LR30-15NO-YBA-TM-H	LR30-16NO-YAA-TM-H	LR30-25NO-YBA-TM-H	
DC 3 wire 10-30V NPN NC	LR30-10NC-YAA-TM-H	LR30-15NC-YBA-TM-H	LR30-16NC-YAA-TM-H	LR30-25NC-YBA-TM-H	
DC 3 wire 10-30V PNP NO	LR30-10PO-YAA-TM-H	LR30-15PO-YBA-TM-H	LR30-16PO-YAA-TM-H	LR30-25PO-YBA-TM-H	
DC 3 wire 10-30V PNP NC	LR30-10PC-YAA-TM-H	LR30-15PC-YBA-TM-H	LR30-16PC-YAA-TM-H	LR30-25PC-YBA-TM-H	
DC 4 wire 10-30V Convertible PNP (NO&NC)	LR30-10PS-YAA-TM-H	LR30-15PS-YBA-TM-H	LR30-16PS-YAA-TM-H	LR30-25PS-YBA-TM-H	
DC 4 wire 10-30V Convertible NPN (NO&NC)	LR30-10NS-YAA-TM-H	LR30-15NS-YBA-TM-H	LR30-16NS-YAA-TM-H	LR30-25NS-YBA-TM-H	
DC 2 wire 10-60V NO	LR30-10NS-YAD-TM-H	LR30-15HO-YBD-TM-H	LR30-16HO-YAD-TM-H	LR30-25HO-YBD-TM-H	
DC 2 wire 10-60V NC	LR30-10HC-YAD-TM-H	LR30-15HC-YBD-TM-H	LR30-16HC-YAD-TM-H	LR30-25HC-YBD-TM-H	
DC 3 wire 10-55V NPN NO	LR30-10NO-YAC-TM-H	LR30-15NO-YBC-TM-H	LR30-16NO-YAC-TM-H	LR30-25NO-YBC-TM-H	
DC 3 wire 10-55V NPN NC	LR30-10NC-YAC-TM-H	LR30-15NC-YBC-TM-H	LR30-16NC-YAC-TM-H	LR30-25NC-YBC-TM-H	
DC 3 wire 10-55V PNP NO	LR30-10PO-YAC-TM-H	LR30-15PO-YBC-TM-H	LR30-16PO-YAC-TM-H	LR30-25PO-YBC-TM-H	
DC 3 wire 10-55V PNP NC	LR30-10PC-YAC-TM-H	LR30-15PC-YBC-TM-H	LR30-16PC-YAC-TM-H	LR30-25PC-YBC-TM-H	
DC 3 wire 5-36V NPN NO	LR30-10NO-YAB-TM-H	LR30-15NO-YBB-TM-H	LR30-16NO-YAB-TM-H	LR30-25NO-YBB-TM-H	
DC 3 wire 5-36V NPN NC	LR30-10NC-YAB-TM-H	LR30-15NC-YBB-TM-H	LR30-16NC-YAB-TM-H	LR30-25NC-YBB-TM-H	
DC 3 wire 5-36V PNP NO	LR30-10PO-YAB-TM-H	LR30-15PO-YBB-TM-H	LR30-16PO-YAB-TM-H	LR30-25PO-YBB-TM-H	
DC 3 wire 5-36V PNP NC	LR30-10PC-YAB-TM-H	LR30-15PC-YBB-TM-H	LR30-16PC-YAB-TM-H	LR30-25PC-YBB-TM-H	
DC 4 wire 5-36V Convertible PNP (NO&NC)	LR30-10PS-YAB-TM-H	LR30-15PS-YBB-TM-H	LR30-16PS-YAB-TM-H	LR30-25PS-YBB-TM-H	
DC 4 wire 5-36V Convertible NPN (NO&NC)	LR30-10NS-YAB-TM-H	LR30-15NS-YBB-TM-H	LR30-16NS-YAB-TM-H	LR30-25NS-YBB-TM-H	

## **Product Parameters**

DC 3 wire 10-55V PNP NC

DC 3 wire 5-36V NPN NO DC 3 wire 5-36V NPN NC

DC 3 wire 5-36V PNP NO

DC 3 wire 5-36V PNP NC

DC 4 wire 5-36V Convertible PNP (NO&NC) DC 4 wire 5-36V Convertible NPN (NO&NC)

i iouucti arameters					
	M30x1.5 48 4LED - M12X1 -	15 10 M12X1	48 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	53 0 POT 10 M12X1-	
Size category	М 3	80	M 30		
• Shielded $\bigcirc$ Non-shielded $\bigcirc$ Semi-shielded	<b>⊖</b>	0	<b>⊖</b>	0	
Sn: mm	22 mm 4	40 mm	25 mm	50 mm	
			Nickel-plated brass		
Shell material	Nickel-plate	ed brass	Nickel-plat	ed brass	
Shell material ● LED display ○ No LED display	Nickel-plate	ed brass	Nickel-plat	ed brass	
	Nickel-plate		Nickel-plat ● 10-30VDC / <sup>/</sup>		
● LED display 🔿 No LED display	•	0-55VDC / 10-60VDC	•	10-60VDC	
<ul> <li>LED display O No LED display</li> <li>Operating voltage</li> <li>Allowable pulsating voltage</li> <li>No-load current</li> </ul>	● 10-30VDC / 5-36VDC / 10 <10% <10m	0-55VDC / 10-60VDC % hA	● 10-30VDC / <10 <sup>(</sup> <101	10-60VDC % mA	
<ul> <li>LED display O No LED display</li> <li>Operating voltage</li> <li>Allowable pulsating voltage</li> <li>No-load current</li> <li>Maximum load current</li> </ul>	● 10-30VDC / 5-36VDC / 10 <10% <10m 200m	0-55VDC / 10-60VDC % nA nA	● 10-30VDC / <10 <10 200	10-60VDC % mA mA	
LED display O No LED display     Operating voltage     Allowable pulsating voltage     No-load current     Maximum load current     Leakage current	● 10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01	0-55VDC / 10-60VDC % nA nA ImA	(10-30VDC / <10 <10 200 <0.0	10-60VDC % mA mA 1mA	
LED display O No LED display     Operating voltage     Allowable pulsating voltage     No-load current     Maximum load current     Leakage current     Voltage drop	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V	0-55VDC / 10-60VDC 6 nA nA ImA /	(10-30VDC / <10 <10 200 <0.0 <2.0	10-60VDC % mA mA 1mA V	
LED display O No LED display     Operating voltage     Allowable pulsating voltage     No-load current     Maximum load current     Leakage current     Voltage drop     Switching frequency	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ	0-55VDC / 10-60VDC 6 nA nA ImA / 100HZ	● 10-30VDC / <10' <10' 200 <0.0 <2.0 150HZ	10-60VDC % mA mA 11mA V 100HZ	
LED display O No LED display     Operating voltage     Allowable pulsating voltage     No-load current     Maximum load current     Leakage current     Voltage drop     Switching frequency     Response time	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ 1ms	0-55VDC / 10-60VDC 6 nA ImA / 100HZ 1ms	(10-30VDC / <10 <10 200 <0.0 <2.0 150HZ 1ms	10-60VDC % mA mA 11mA V 100HZ 1ms	
● LED display ○ No LED display Operating voltage Allowable pulsating voltage No-load current Maximum load current Leakage current Voltage drop Switching frequency Response time Switching hysteresis	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ 1ms <15%	0-55VDC / 10-60VDC hA nA ImA / 100HZ 1ms 6(Sr)	● 10-30VDC / <10' <10' 200 <0.0 <2.0 150HZ 1ms <15'	10-60VDC % mA mA 11mA V 100HZ 1ms %(Sr)	
LED display O No LED display     Operating voltage     Allowable pulsating voltage     No-load current     Maximum load current     Leakage current     Voltage drop     Switching frequency     Response time	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ 1ms	0-55VDC / 10-60VDC hA nA ImA / 100HZ 1ms 6(Sr)	● 10-30VDC / <10' <10' 200 <0.0 <2.0 150HZ 1ms <15'	10-60VDC % mA mA 11mA V 100HZ 1ms %(Sr) %(Sr)	
LED display O No LED display     Operating voltage     Allowable pulsating voltage     No-load current     Maximum load current     Leakage current     Voltage drop     Switching frequency     Response time     Switching hysteresis     Repeat accuracy     Protection level     Operating temperature	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ 1ms <15% <1.0% IP67 -25°C	0-55VDC / 10-60VDC hA hA ImA / 100HZ 1ms 6(Sr) %(Sr) - +70 °C	● 10-30VDC / <10° <100 200 <0.0 <2.0 150HZ 1ms <15° <1.0 IP67 -25°€	10-60VDC % mA mA 11mA V 100HZ 1ms %(Sr) %(Sr) %(Sr) 7 C - +70°C	
<ul> <li>LED display O No LED display</li> <li>Operating voltage</li> <li>Allowable pulsating voltage</li> <li>No-load current</li> <li>Maximum load current</li> <li>Leakage current</li> <li>Voltage drop</li> <li>Switching frequency</li> <li>Response time</li> <li>Switching hysteresis</li> <li>Repeat accuracy</li> <li>Protection level</li> <li>Operating temperature</li> <li>Temperature drift</li> </ul>	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ 1ms <15% <1.0% IP67 -25°C <10%	0-55VDC / 10-60VDC 6 hA nA ImA / 100HZ 1ms 6(Sr) %(Sr) 5 - +70 °C 6(Sr)	● 10-30VDC / <10' <10' 200 <0.0 <2.0 150HZ 1 1ms 15' <1.0 IP67 -25°4 <10'	10-60VDC % mA mA 11mA V 100HZ 1ms %(Sr) %(Sr) %(Sr) C - +70 °C %(Sr)	
<ul> <li>LED display O No LED display</li> <li>Operating voltage</li> <li>Allowable pulsating voltage</li> <li>No-load current</li> <li>Maximum load current</li> <li>Leakage current</li> <li>Voltage drop</li> <li>Switching frequency</li> <li>Response time</li> <li>Switching hysteresis</li> <li>Repeat accuracy</li> <li>Protection level</li> <li>Operating temperature</li> <li>Temperature drift</li> <li>Short circuit protection/reverse polarity protection</li> </ul>	● 10-30VDC / 5-36VDC / 10 <10m 200m <0.01 <2.0V 150HZ 1ms <15% <1.0% IP67 -25°C <10% Yes	0-55VDC / 10-60VDC hA hA hA lmA / 100HZ 1ms h(Sr) (Sr) : -+70°C h(Sr) : -+70°C h(Sr)	● 10-30VDC / <10' <10' 200 <0.0 <2.0 150HZ 1ms <15' <1.0 IP67 -25°( <10' Ye	10-60VDC % mA mA 1mA V 100HZ 1ms %(Sr) %(Sr) %(Sr) C - +70 °C %(Sr) 25	
<ul> <li>LED display O No LED display</li> <li>Operating voltage</li> <li>Allowable pulsating voltage</li> <li>No-load current</li> <li>Maximum load current</li> <li>Leakage current</li> <li>Voltage drop</li> <li>Switching frequency</li> <li>Response time</li> <li>Switching hysteresis</li> <li>Repeat accuracy</li> <li>Protection level</li> <li>Operating temperature</li> <li>Temperature drift</li> <li>Short circuit protection/reverse polarity protection</li> <li>Overload protection current</li> </ul>	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ 1ms <15% <1.0% IP67 -25°C <10% Yes 220m	0-55VDC / 10-60VDC hA nA ImA / 100HZ 1ms 6(Sr) %(Sr) : - +70 °C 6(Sr) s nA	● 10-30VDC / <10' <10' 200 <0.0 <2.0 150HZ 1ms <15' <1.0 IP67 .25°( <10' Ye 220	10-60VDC % mA mA 1mA V 100HZ 1ms %(Sr) %(Sr) %(Sr) %(Sr) %(Sr) %(Sr) %(Sr) %	
<ul> <li>LED display O No LED display</li> <li>Operating voltage</li> <li>Allowable pulsating voltage</li> <li>No-load current</li> <li>Maximum load current</li> <li>Leakage current</li> <li>Voltage drop</li> <li>Switching frequency</li> <li>Response time</li> <li>Switching hysteresis</li> <li>Repeat accuracy</li> <li>Protection level</li> <li>Operating temperature</li> <li>Temperature drift</li> <li>Short circuit protection/reverse polarity protection</li> </ul>	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ 1ms <15% <1.0% IP67 -25°C <10% Yes 220m PBT	0-55VDC / 10-60VDC hA hA hA / 100HZ 1ms h(Sr) %(Sr) %(Sr) 5 - +70 °C h(Sr) 5 - hA	10-30VDC / <100 <100 200 <0.0 <2.0 150HZ 1ms <150 <1.0 IP67 -25 °0 <100 Ye 220 PBT	10-60VDC % mA mA 11mA V 100HZ 1ms %(Sr) %(Sr) %(Sr) 7 C - +70°C %(Sr) 95 mA	
<ul> <li>LED display ○ No LED display</li> <li>Operating voltage</li> <li>Allowable pulsating voltage</li> <li>No-load current</li> <li>Maximum load current</li> <li>Leakage current</li> <li>Voltage drop</li> <li>Switching frequency</li> <li>Response time</li> <li>Switching hysteresis</li> <li>Repeat accuracy</li> <li>Protection level</li> <li>Operating temperature</li> <li>Temperature drift</li> <li>Short circuit protection/reverse polarity protection</li> <li>Overload protection current</li> <li>Sensing surface material</li> <li>Connection method</li> </ul>	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ 1ms <15% <1.0% IP67 -25°C <10% Yes 220m	0-55VDC / 10-60VDC hA hA hA / 100HZ 1ms h(Sr) %(Sr) %(Sr) 5 - +70 °C h(Sr) 5 - hA	● 10-30VDC / <10' <10' 200 <0.0 <2.0 150HZ 1ms <15' <1.0 IP67 .25°( <10' Ye 220	10-60VDC % mA mA 11mA V 100HZ 1ms %(Sr) %(Sr) %(Sr) 7 C - +70°C %(Sr) 95 mA	
<ul> <li>LED display O No LED display</li> <li>Operating voltage</li> <li>Allowable pulsating voltage</li> <li>No-load current</li> <li>Maximum load current</li> <li>Leakage current</li> <li>Voltage drop</li> <li>Switching frequency</li> <li>Response time</li> <li>Switching hysteresis</li> <li>Repeat accuracy</li> <li>Protection level</li> <li>Operating temperature</li> <li>Temperature drift</li> <li>Short circuit protection/reverse polarity protection</li> <li>Overload protection current</li> <li>Sensing surface material</li> </ul>	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ 1ms <15% <1.0% IP67 -25°C <10% Yes 220m PBT	0-55VDC / 10-60VDC hA hA hA / 100HZ 1ms h(Sr) %(Sr) %(Sr) 5 - +70 °C h(Sr) 5 - hA	10-30VDC / <100 <100 200 <0.0 <2.0 150HZ 1ms <150 <1.0 IP67 -25 °0 <100 Ye 220 PBT	10-60VDC % mA mA 11mA V 100HZ 1ms %(Sr) %(Sr) %(Sr) 7 C - +70°C %(Sr) 95 mA	
<ul> <li>LED display O No LED display</li> <li>Operating voltage</li> <li>Allowable pulsating voltage</li> <li>No-load current</li> <li>Maximum load current</li> <li>Leakage current</li> <li>Voltage drop</li> <li>Switching frequency</li> <li>Response time</li> <li>Switching hysteresis</li> <li>Repeat accuracy</li> <li>Protection level</li> <li>Operating temperature</li> <li>Temperature drift</li> <li>Short circuit protection/reverse polarity protection</li> <li>Overload protection current</li> <li>Sensing surface material</li> <li>Connection method</li> <li>Product Model</li> </ul>	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ 1ms <15% <1.0% IP67 -25°C <10% Yes 220m PBT M12 Conne	0-55VDC / 10-60VDC a hA nA ImA / 100HZ 1ms 6(Sr) %(Sr) 5 - +70 °C 6(Sr) 5 - hA ectors	<ul> <li>10-30VDC / </li> <li>&lt;10°</li> <li>&lt;10°</li> <li>&lt;10°</li> <li>&lt;0.0</li> <li>&lt;2.0</li> <li>&lt;2.0</li> <li>150HZ</li> <li>1ms</li> <li>&lt;15°</li> <li>&lt;1.0</li> <li>IP67</li> <li>-25°°</li> <li>&lt;10°</li> <li>Ye</li> <li>220</li> <li>PB3</li> <li>M12 Conn</li> </ul>	10-60VDC % mA mA 11mA V 100HZ 1ms %(Sr) %(Sr) %(Sr) %(Sr) %(Sr) %(Sr) %(Sr) % Example the second s	
	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ 1ms <15% <1.0% IP67 -25°C <10% Yess 220m PBT M12 Conne LR30-22NO-YAA-TM-H	0-55VDC / 10-60VDC a hA nA ImA / 100HZ 1ms 6(Sr) %(Sr) 5 - +70 °C 6(Sr) 5 - +70 °C 6(Sr) 5 - transmission 6(Sr) 8 - transmission 8 - transm	● 10-30VDC / <100 <100 200 <0.0 <2.0 150HZ 1ms <150 <1.0 IP67 -25°0 <100 Ye 220 PB1 M12 Conn LR30-25NO-YAA-TM-H	10-60VDC % mA mA 11mA V 100HZ 1ms %(Sr) %(Sr) %(Sr) %(Sr) %(Sr) % Sr mA f f f f f f t t R30-50NO-YBA-TM-H	
<ul> <li>LED display ○ No LED display</li> <li>Operating voltage</li> <li>Allowable pulsating voltage</li> <li>No-load current</li> <li>Maximum load current</li> <li>Leakage current</li> <li>Voltage drop</li> <li>Switching frequency</li> <li>Response time</li> <li>Switching hysteresis</li> <li>Repeat accuracy</li> <li>Protection level</li> <li>Operating temperature</li> <li>Temperature drift</li> <li>Short circuit protection/reverse polarity protection</li> <li>Overload protection current</li> <li>Sensing surface material</li> <li>Connection method</li> <li>Product Model</li> <li>DC 3 wire 10-30V NPN NC</li> <li>DC 3 wire 10-30V PNP NO</li> <li>DC 3 wire 10-30V PNP NC</li> </ul>	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ 1ms //>	0-55VDC / 10-60VDC a hA hA ImA / 100HZ 1ms 6(Sr) 6(Sr) 5 - +70 °C 6(Sr) 5 - +70 °C 6(Sr) 5 - +70 °C 6(Sr) 8 - +70 °C 100	● 10-30VDC / <100 <100 <200 <2.0 150HZ 1ms <150 <1.0 1P67 -25°0 <100 Ye 220 PB1 M12 Conn LR30-25NO-YAA-TM-H LR30-25NC-YAA-TM-H	10-60VDC % mA mA 11mA V 100HZ 1ms %(Sr) %(Sr) %(Sr) %(Sr) %(Sr) %(Sr) %(Sr) % Example the second s	
<ul> <li>LED display ○ No LED display</li> <li>Operating voltage</li> <li>Allowable pulsating voltage</li> <li>No-load current</li> <li>Maximum load current</li> <li>Leakage current</li> <li>Voltage drop</li> <li>Switching frequency</li> <li>Response time</li> <li>Switching hysteresis</li> <li>Repeat accuracy</li> <li>Protection level</li> <li>Operating temperature</li> <li>Temperature drift</li> <li>Short circuit protection/reverse polarity protection</li> <li>Overload protection current</li> <li>Sensing surface material</li> <li>Connection method</li> <li>Product Model</li> <li>DC 3 wire 10-30V NPN NO</li> <li>DC 3 wire 10-30V PNP NO</li> <li>DC 3 wire 10-30V PNP NO</li> <li>DC 3 wire 10-30V PNP NC</li> <li>DC 4 wire 10-30V Convertible PNP (NO&amp;NC)</li> </ul>	● 10-30VDC / 5-36VDC / 10 <10% <10m 200m 200m <0.01 <2.0V 150HZ 1ms <15% <1.0% 1967 .25°C <10% Yes 220m PBT M12 Conne	0-55VDC / 10-60VDC hA hA hA ImA / 100HZ 1ms 6(Sr) %(Sr) %(Sr) c - +70 °C 6(Sr) c - +70 °C 6(Sr) s hA ectors LR30-40NO-YBA-TM-H LR30-40PC-YBA-TM-H LR30-40PC-YBA-TM-H LR30-40PS-YBA-TM-H	● 10-30VDC / <10-30VDC / <100 200 <0.0 <2.0 150HZ / 1ms / <150 <1.0 IP67 -25°0 <100 Ye 220 PB1 M12 Conn LR30-25NO-YAA-TM-H LR30-25NO-YAA-TM-H	10-60VDC % mA mA 11mA V 100HZ 1ms %(Sr) %(Sr) %(Sr) %(Sr) %(Sr) % Ss mA f f f f f f f f t LR30-50NO-YBA-TM-H LR30-50PO-YBA-TM-H LR30-50PO-YBA-TM-H	
<ul> <li>LED display ○ No LED display</li> <li>Operating voltage</li> <li>Allowable pulsating voltage</li> <li>No-load current</li> <li>Maximum load current</li> <li>Leakage current</li> <li>Voltage drop</li> <li>Switching frequency</li> <li>Response time</li> <li>Switching hysteresis</li> <li>Repeat accuracy</li> <li>Protection level</li> <li>Operating temperature</li> <li>Temperature drift</li> <li>Short circuit protection/reverse polarity protection</li> <li>Overload protection current</li> <li>Sensing surface material</li> <li>Connection method</li> <li>Product Model</li> <li>DC 3 wire 10-30V NPN NO</li> <li>DC 3 wire 10-30V PP NC</li> <li>DC 3 wire 10-30V PP NC</li> <li>DC 4 wire 10-30V Convertible PNP (NO&amp;NC)</li> <li>DC 4 wire 10-30V Convertible NPN (NO&amp;NC)</li> </ul>	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ 1ms   <150HZ 1ms   <15% <1.0% IP67 -25°C <10% Yes 220m PBT M12 Conne LR30-22NO-YAA-TM-H LR30-22NO-YAA-TM-H LR30-22PO-YAA-TM-H LR30-22PC-YAA-TM-H LR30-22PS-YAA-TM-H	0-55VDC / 10-60VDC a A nA ImA / 100HZ 1ms 6(Sr) 6(Sr) 5 - +70 °C 6(Sr) 5 - +70 °C 6(Sr) 5 - +70 °C 6(Sr) 8 - +70 °C 100	10-30VDC / <100 <100 <200 <0.0 <2.0 150HZ 1ms <150 <1.0 IP67 -25°0 <100 Ye 220 PBT M12 Conn LR30-25NO-YAA-TM-H LR30-25NC-YAA-TM-H LR30-25PC-YAA-TM-H	10-60VDC % mA mA 1mA V 100HZ 1ms %(Sr) %(Sr) %(Sr) %(Sr) %(Sr) % C - +70 °C %(Sr) % S mA F tectors LR30-50NO-YBA-TM-H LR30-50PC-YBA-TM-H LR30-50PC-YBA-TM-H	
<ul> <li>LED display ○ No LED display</li> <li>Operating voltage</li> <li>Allowable pulsating voltage</li> <li>No-load current</li> <li>Maximum load current</li> <li>Leakage current</li> <li>Voltage drop</li> <li>Switching frequency</li> <li>Response time</li> <li>Switching hysteresis</li> <li>Repeat accuracy</li> <li>Protection level</li> <li>Operating temperature</li> <li>Temperature drift</li> <li>Short circuit protection/reverse polarity protection</li> <li>Overload protection current</li> <li>Sensing surface material</li> <li>Connection method</li> <li>Product Model</li> <li>DC 3 wire 10-30V NPN NO</li> <li>DC 3 wire 10-30V PP NC</li> <li>DC 3 wire 10-30V PP NC</li> <li>DC 4 wire 10-30V Convertible PNP (NO&amp;NC)</li> <li>DC 4 wire 10-30V Convertible NPN (NO&amp;NC)</li> <li>DC 2 wire 10-60V NO</li> </ul>	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ 1ms <15% <1.0% IP67 .25°C <10% Yes 220m PBT M12 Conne LR30-22NO-YAA-TM-H LR30-22NC-YAA-TM-H LR30-22PO-YAA-TM-H LR30-22PC-YAA-TM-H LR30-22PS-YAA-TM-H LR30-22NS-YAA-TM-H LR30-22NS-YAA-TM-H	0-55VDC / 10-60VDC hA hA hA ImA / 100HZ 1ms 6(Sr) %(Sr) 5: -+70 °C 6(Sr) 5: -+70 °C 6(Sr) 5: -+70 °C 6(Sr) 5:	10-30VDC /	10-60VDC % mA mA 11mA V 100HZ 1ms %(Sr) %(Sr) %(Sr) %(Sr) % (Sr) (Sr)	
<ul> <li>LED display ○ No LED display</li> <li>Operating voltage</li> <li>Allowable pulsating voltage</li> <li>No-load current</li> <li>Maximum load current</li> <li>Leakage current</li> <li>Voltage drop</li> <li>Switching frequency</li> <li>Response time</li> <li>Switching hysteresis</li> <li>Repeat accuracy</li> <li>Protection level</li> <li>Operating temperature</li> <li>Temperature drift</li> <li>Short circuit protection/reverse polarity protection</li> <li>Overload protection current</li> <li>Sensing surface material</li> <li>Connection method</li> <li>Product Model</li> <li>DC 3 wire 10-30V NPN NO</li> <li>DC 3 wire 10-30V PP NC</li> <li>DC 3 wire 10-30V PP NC</li> <li>DC 4 wire 10-30V Convertible PNP (NO&amp;NC)</li> <li>DC 4 wire 10-30V Convertible PNP (NO&amp;NC)</li> <li>DC 2 wire 10-60V NO</li> <li>DC 2 wire 10-60V NC</li> </ul>	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ 1ms   <150HZ 1ms   <15% <1.0% IP67 -25°C <10% Yes 220m PBT M12 Conne LR30-22NO-YAA-TM-H LR30-22NO-YAA-TM-H LR30-22PO-YAA-TM-H LR30-22PC-YAA-TM-H LR30-22PS-YAA-TM-H	0-55VDC / 10-60VDC a A nA ImA / 100HZ 1ms 6(Sr) 6(Sr) 5 - +70 °C 6(Sr) 5 - +70 °C 6(Sr) 5 - +70 °C 6(Sr) 8 - +70 °C 100	10-30VDC / <100 <100 <200 <0.0 <2.0 150HZ 1ms <150 <1.0 IP67 -25°0 <100 Ye 220 PBT M12 Conn LR30-25NO-YAA-TM-H LR30-25NC-YAA-TM-H LR30-25PC-YAA-TM-H	10-60VDC % mA mA 1mA V 100HZ 1ms %(Sr) %(Sr) %(Sr) %(Sr) %(Sr) % C - +70 °C %(Sr) % S mA F tectors LR30-50NO-YBA-TM-H LR30-50PC-YBA-TM-H LR30-50PC-YBA-TM-H	
<ul> <li>LED display ○ No LED display</li> <li>Operating voltage</li> <li>Allowable pulsating voltage</li> <li>No-load current</li> <li>Maximum load current</li> <li>Leakage current</li> <li>Voltage drop</li> <li>Switching frequency</li> <li>Response time</li> <li>Switching hysteresis</li> <li>Repeat accuracy</li> <li>Protection level</li> <li>Operating temperature</li> <li>Temperature drift</li> <li>Short circuit protection/reverse polarity protection</li> <li>Overload protection current</li> <li>Sensing surface material</li> <li>Connection method</li> <li>Product Model</li> <li>DC 3 wire 10-30V NPN NO</li> <li>DC 3 wire 10-30V PP NC</li> <li>DC 3 wire 10-30V PP NC</li> <li>DC 4 wire 10-30V Convertible PNP (NO&amp;NC)</li> <li>DC 4 wire 10-30V Convertible NPN (NO&amp;NC)</li> <li>DC 2 wire 10-60V NO</li> </ul>	10-30VDC / 5-36VDC / 10 <10% <10m 200m <0.01 <2.0V 150HZ 1ms <15% <1.0% IP67 .25°C <10% Yes 220m PBT M12 Conne LR30-22NO-YAA-TM-H LR30-22NC-YAA-TM-H LR30-22PO-YAA-TM-H LR30-22PC-YAA-TM-H LR30-22PS-YAA-TM-H LR30-22NS-YAA-TM-H LR30-22NS-YAA-TM-H LR30-22NO-YAD-TM-H LR30-22HO-YAD-TM-H	0-55VDC / 10-60VDC 1A 1A 1A 1A 1MA / 100HZ 1ms 6(Sr) %(Sr) %(Sr) 5 - +70 °C 6(Sr) 5 100HZ	10-30VDC /	10-60VDC % mA mA 11mA V 100HZ 1ms %(Sr) %(Sr) %(Sr) %(Sr) % (Sr) (Sr)	
<ul> <li>LED display ○ No LED display</li> <li>Operating voltage</li> <li>Allowable pulsating voltage</li> <li>No-load current</li> <li>Maximum load current</li> <li>Leakage current</li> <li>Voltage drop</li> <li>Switching frequency</li> <li>Response time</li> <li>Switching hysteresis</li> <li>Repeat accuracy</li> <li>Protection level</li> <li>Operating temperature</li> <li>Temperature drift</li> <li>Short circuit protection/reverse polarity protection</li> <li>Overload protection current</li> <li>Sensing surface material</li> <li>Connection method</li> <li>Product Model</li> <li>DC 3 wire 10-30V NPN NO</li> <li>DC 3 wire 10-30V PPP NC</li> <li>DC 4 wire 10-30V Convertible PNP (NO&amp;NC)</li> <li>DC 4 wire 10-30V Convertible PNP (NO&amp;NC)</li> <li>DC 2 wire 10-60V NO</li> <li>DC 2 wire 10-60V NC</li> <li>DC 3 wire 10-55V NPN NO</li> </ul>	10-30VDC / 5-36VDC / 10 <10m 200m <0.01 <2.0V 150HZ 1ms 150HZ 1ms <15% <1.0% IP67 .25°C <10% Yes 220m PBT M12 Conne LR30-22NO-YAA-TM-H LR30-22PO-YAA-TM-H LR30-22PO-YAA-TM-H LR30-22PC-YAA-TM-H LR30-22PS-YAA-TM-H LR30-22NS-YAA-TM-H LR30-22NS-YAA-TM-H LR30-22NS-YAA-TM-H LR30-22NO-YAC-TM-H	0-55VDC / 10-60VDC a hA nA ImA / 100HZ 1ms b(Sr) (Sr) -+70°C b(Sr) -+70°C b(Sr) -+70°C b(Sr) 	10-30VDC /	10-60VDC % mA mA 11mA V 100HZ 1ms %(Sr) %(Sr) %(Sr) %(Sr) % (Sr) (Sr)	

LR30-40PC-YBC-TM-H

LR30-40NO-YBB-TM-H

LR30-40NC-YBB-TM-H

LR30-40PO-YBB-TM-H

LR30-40PC-YBB-TM-H

LR30-40PS-YBB-TM-H

LR30-40NS-YBB-TM-H

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LR30-22NC-YAB-TM-H

LR30-22PO-YAB-TM-H

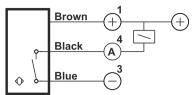
LR30-22PC-YAB-TM-H

LR30-22PS-YAB-TM-H

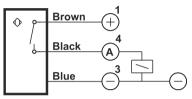
LR30-22NS-YAB-TM-H

## **Wiring Diagram**

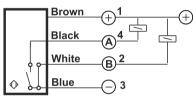
### DC NPN NO



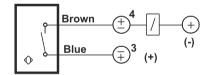
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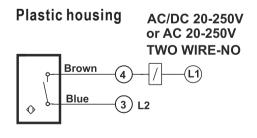


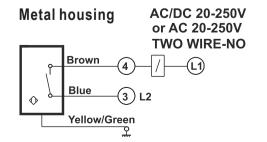
## DC NPN NO&NC



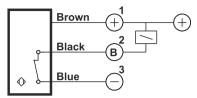
## DC 2 wire NO



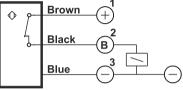




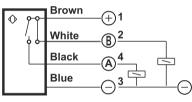




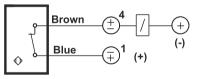


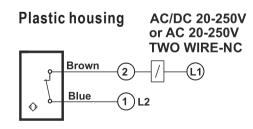


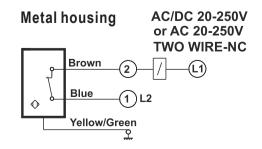
### DC PNP NO&NC



## DC 2 wire NC

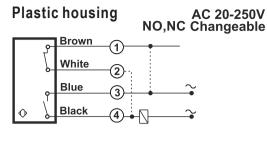






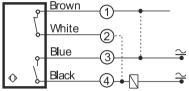
DONGGUAN DADI ELECTRONIC TECHNOLOGY CO., LTD Website: www.dadisick.com Email: sale@dadisick.com

## **Wiring Diagram**

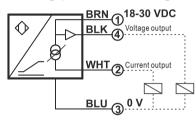


**Plastic housing** 

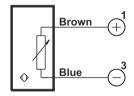




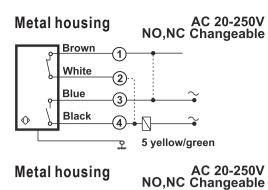
Analog (current + voltage output type)

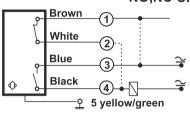


## Riot-proof DC 6-12V

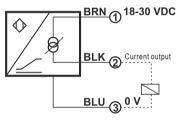


## **Connector Diagram**

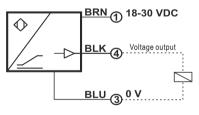


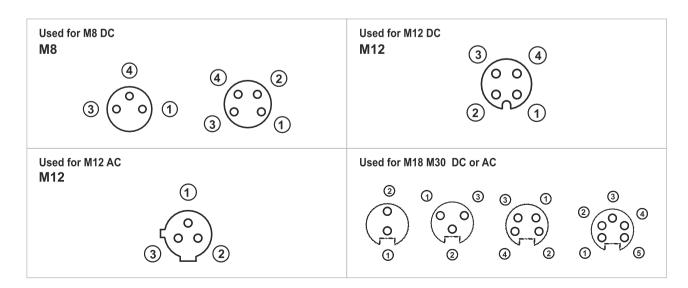


## Analog (current output type)



## Analog (voltage output type)





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