

TECHNICAL DATA SHEET

Inductive Proximity Switches **Proximity Sensors** M18 Series



Contents

- Functional Description
- Application Scenarios Technical Parameters
- Size Parameters
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DONGGUAN DADI ELECTRONIC TECHNOLOGY CO., LTD Email: sale@dadisick.com Website: www.dadisick.com

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° 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

L	R	1	8	- 0	5	Ν	0	Ζ	Α	Α-	3	A —	Н	(LR18-05NO-ZAA-3A-H)
								Τ	Τ	Т	Т	Т	ΤĽ	Special Instructions
														Shell material: H: nickel-plated brass; S: stainless steel; L: aluminum alloy; P: PBT; T: Teflon; F: PTFE; M: POM;
														Short circuit protection: A: Standard type with short circuit protection M: Short type with short circuit protection S: Standard type without short circuit protection R: Ultra short type with short circuit protection
														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
						l								Output mode:NC: NPN NC;NO: NPN NOPC: PNP NC;PO: PNP NONS: NPN NO&NCPS: PNP NO&NCHC: DC NC;HO: DC NOAC: AC NC;AO: AC NOHS: DC NO&NCAS: AC NO&NCI: analog current;U: analog voltageTC: AC&DC NC;TO: AC&DC NOTS: AC/DC NO&NCV: Current + voltage outputNA: Explosion-proof typeHO: DC NO
														Detection distance: 1mm-50mm
														Specification(mm): φ3, φ4, M4, M5, φ6.5, M8, M12, M18, M30
														Type: 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; C: Limit switch type; D: Anti-welding slag and high-magnetic type; F: Corrosion-resistant type; A: Analog type; I: Ring type; E: Square type
														Series:

L: Inductive sensor C: Capacitive sensor



M18 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



<section-header> Product Parameters Signature Signature Mile Mark Mark Mark Mark Mark Mark Mark Mark Mark Mark

Shielded ONon-shielded	•	0	•	0		
Sn: mm	5 mm	8 mm	8 mm	16 mm		
Shell material	Nickel-pla	ted brass	Nickel-plated brass			
LED display			•			
Operating voltage	10-30VDC / 5-36VDC /	10-55VDC / 10-60VDC	10-30VDC / 5-36VDC / 10-55VDC / 10-60VDC			
Allowable pulsating voltage	<10	1%	<10	<10%		
No-load current	<10	mA	<10mA			
Maximum load current)mA	200	200mA		
Leakage current		01mA)1mA		
Voltage drop	<1.5	5V	<1.5	V		
Switching frequency	1KHZ	500HZ	500HZ	150HZ		
Response time	0.2ms	0.5ms	0.5ms	1ms		
Switching hysteresis		i%(Sr)		%(Sr)		
Repeat accuracy		0%(Sr))%(Sr)		
Protection level	IP6		IP67			
Operating temperature		°C - +70°C		-25°C - +70°C		
Temperature drift	<10	l%(Sr)	<10%(Sr)			
Short circuit protection/reverse polarity protection	Y	es	Yes			
Overload protection current)mA	220mA			
Sensing surface material	PB		PBT			
Connection method	2m oil-proof 5. 0 ⊕ 3x0.34/5		2m oil-proof PVC cable 5. 0 \(\phi\) 3x0.34/5. 0 \(\phi\) 4x0.25			
Product Model						
DC 3 wire 10-30V NPN NO	LR18-05NO-ZAA-3A-H	LR18-08NO-ZBA-3A-H	LR18-08NO-ZAA-3A-H	LR18-16NO-ZBA-3A		
DC 3 wire 10-30V NPN NC	LR18-05NC-ZAA-3A-H	LR18-08NC-ZBA-3A-H	LR18-08NC-ZAA-3A-H	LR18-16NC-ZBA-3A		
DC 3 wire 10-30V PNP NO	LR18-05PO-ZAA-3A-H	LR18-08PO-ZBA-3A-H	LR18-08PO-ZAA-3A-H	LR18-16PO-ZBA-3A		
DC 3 wire 10-30V PNP NC	LR18-05PC-ZAA-3A-H	LR18-08PC-ZBA-3A-H	LR18-08PC-ZAA-3A-H	LR18-16PC-ZBA-3A		
DC 4 wire 10-30V Convertible PNP (NO&NC)	LR18-05PS-ZAA-4A-H	LR18-08PS-ZBA-4A-H	LR18-08PS-ZAA-4A-H	LR18-16PS-ZBA-4A		
DC 4 wire 10-30V Convertible NPN (NO&NC)	LR18-05NS-ZAA-4A-H	LR18-08NS-ZBA-4A-H	LR18-08NS-ZAA-4A-H	LR18-16NS-ZBA-4A		
DC 2 wire 10-60V NO	LR18-05HO-ZAD-2A-H	LR18-08HO-ZBD-2A-H	LR18-08HO-ZAD-2A-H	LR18-16HO-ZBD-2A		
DC 2 wire 10-60V NC	LR18-05HC-ZAD-2A-H	LR18-08HC-ZBD-2A-H	LR18-08HC-ZAD-2A-H	LR18-16HC-ZBD-2A		
DC 3 wire 10-55V NPN NO	LR18-05NO-ZAC-3A-H	LR18-08NO-ZBC-3A-H	LR18-08NO-ZAC-3A-H	LR18-16NO-ZBC-3A		
DC 3 wire 10-55V NPN NC	LR18-05NC-ZAC-3A-H	LR18-08NC-ZBC-3A-H	LR18-08NC-ZAC-3A-H	LR18-16NC-ZBC-3A		
DC 3 wire 10-55V PNP NO	LR18-05PO-ZAC-3A-H	LR18-08PO-ZBC-3A-H	LR18-08PO-ZAC-3A-H	LR18-16PO-ZBC-3A		
DC 3 wire 10-55V PNP NC	LR18-05PC-ZAC-3A-H	LR18-08PC-ZBC-3A-H	LR18-08PC-ZAC-3A-H	LR18-16PC-ZBC-3A		
DC 3 wire 5-36V NPN NO	LR18-05PO-ZAB-3A-H	LR18-08PO-ZBB-3A-H	LR18-08PO-ZAB-3A-H	LR18-16PO-ZBB-3A		
DC 3 wire 5-36V NPN NC	LR18-05PC-ZAB-3A-H	LR18-08PC-ZBB-3A-H	LR18-08PC-ZAB-3A-H	LR18-16PC-ZBB-3A		
DC 3 wire 5-36V PNP NO	LR18-05NO-ZAB-3A-H	LR18-08NO-ZBB-3A-H	LR18-08NO-ZAB-3A-H	LR18-16NO-ZBB-3A		
DC 3 wire 5-36V PNP NC	LR18-05NC-ZAB-3A-H	LR18-08NC-ZBB-3A-H	LR18-08NC-ZAB-3A-H	LR18-16NC-ZBB-3A		
DC 4 wire 5-36V Convertible PNP (NO&NC)	LR18-05PS-ZAB-4A-H	LR18-08PS-ZBB-4A-H	LR18-08PS-ZAB-4A-H	LR18-16PS-ZBB-4A		
DC 4 wire 5-36V Convertible NPN (NO&NC)	LR18-05NS-ZAB-4A-H	LR18-08NS-ZBB-4A-H	LR18-08NS-ZAB-4A-H	LR18-16NS-ZBB-4A		

Size category	M	18	M1	M18		
● Shielded ○ Non-shielded ⊖ Semi-shielded	\ominus	0	Θ	0		
Sn: mm	12 mm	20 mm	15 mm	23 mm		
Shell material	Nickel-pla	ited brass	Nickel-plated brass			
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	200	mA		
Leakage current	<0.	01mA	<0.0	1mA		
Voltage drop	<1.5	5V	<1.5	V		
Switching frequency	300HZ	100HZ	300HZ	100HZ		
Response time	0.5ms	1ms	0.5ms	1ms		
Switching hysteresis	<15	5%(Sr)	<15	%(Sr)		
Repeat accuracy	<1.	0%(Sr)	<1.0	%(Sr)		
Protection level	IP6		IP67			
Operating temperature	-25 [°]	°C - +70 °C	-25°C - +70°C			
Temperature drift	<10)%(Sr)	<10%(Sr)			
Short circuit protection/reverse polarity protection	Y	es	Yes			
Overload protection current		0mA	220mA			
Sensing surface material	PB		PBT			
Connection method	2m oil-proof		2m oil-proof PVC cable 5, 0 \oplus 3x0.34/5, 0 \oplus 4x0.25			
	5.0 \phi 3x0.34/	/5.0 Φ 4x0.25	5.0Φ3x0.34/5	5.0 Φ 4x0.25		
Product Model						
DC 3 wire 10-30V NPN NO	LR18-12NO-ZAA-3A-H	LR18-20NO-ZBA-3A-H	LR18-15NO-ZAA-3A-H	LR18-23NO-ZBA-3A-H		
DC 3 wire 10-30V NPN NC	LR18-12NC-ZAA-3A-H	LR18-20NC-ZBA-3A-H	LR18-15NC-ZAA-3A-H	LR18-23NC-ZBA-3A-H		
DC 3 wire 10-30V PNP NO	LR18-12PO-ZAA-3A-H	LR18-20PO-ZBA-3A-H	LR18-15PO-ZAA-3A-H	LR18-23PO-ZBA-3A-H		
DC 3 wire 10-30V PNP NC	LR18-12PC-ZAA-3A-H	LR18-20PC-ZBA-3A-H	LR18-15PC-ZAA-3A-H	LR18-23PC-ZBA-3A-H		
DC 4 wire 10-30V Convertible PNP (NO&NC)	LR18-12PS-ZAA-4A-H	LR18-20PS-ZBA-4A-H	LR18-15PS-ZAA-4A-H	LR18-23PS-ZBA-4A-H		
DC 4 wire 10-30V Convertible NPN (NO&NC)	LR18-12NS-ZAA-4A-H LR18-12HO-ZAD-2A-H	LR18-20NS-ZBA-4A-H LR18-20HO-ZBD-2A-H	LR18-15NS-ZAA-4A-H LR18-15HO-ZAD-2A-H	LR18-23NS-ZBA-4A-H LR18-23HO-ZBD-2A-H		
DC 2 wire 10-60V NO DC 2 wire 10-60V NC	LR18-12HC-ZAD-2A-H	LR18-20HC-ZBD-2A-H	LR18-15HC-ZAD-2A-H	LR18-23HC-ZBD-2A-H		
	LR18-12NO-ZAC-3A-H	LR18-20NO-ZBC-3A-H	LR18-15NO-ZAC-3A-H	LR18-23NO-ZBC-3A-H		
DC 3 wire 10-55V NPN NO DC 3 wire 10-55V NPN NC	LR18-12NC-ZAC-3A-H	LR18-20NC-ZBC-3A-H	LR18-15NC-ZAC-3A-H	LR18-23NC-ZBC-3A-H		
DC 3 wire 10-55V NPN NC DC 3 wire 10-55V PNP NO	LR18-12PO-ZAC-3A-H	LR18-20PO-ZBC-3A-H	LR18-15PO-ZAC-3A-H	LR18-23PO-ZBC-3A-H		
DC 3 wire 10-55V PNP NO DC 3 wire 10-55V PNP NC	LR18-12PC-ZAC-3A-H	LR18-20PC-ZBC-3A-H	LR18-15PC-ZAC-3A-H	LR18-23PC-ZBC-3A-H		
DC 3 wire 5-36V NPN NO	LR18-12PO-ZAB-3A-H	LR18-20PO-ZBB-3A-H	LR18-15PO-ZAB-3A-H	LR18-23PO-ZBB-3A-H		
DC 3 wire 5-36V NPN NC	LR18-12PC-ZAB-3A-H	LR18-20PC-ZBB-3A-H	LR18-15PC-ZAB-3A-H	LR18-23PC-ZBB-3A-H		
DC 3 wire 5-36V PNP NO	LR18-12NO-ZAB-3A-H	LR18-20NO-ZBB-3A-H	LR18-15NO-ZAB-3A-H	LR18-23NO-ZBB-3A-H		
DC 3 wire 5-36V PNP NC	LR18-12NC-ZAB-3A-H	LR18-20NC-ZBB-3A-H	LR18-15NC-ZAB-3A-H	LR18-23NC-ZBB-3A-H		
DC 4 wire 5-36V Convertible PNP (NO&NC)	LR18-12PS-ZAB-4A-H	LR18-20PS-ZBB-4A-H	LR18-15PS-ZAB-4A-H	LR18-23PS-ZBB-4A-H		
DC 4 wire 5-36V Convertible NPN (NO&NC)	LR18-12NS-ZAB-4A-H	LR18-20NS-ZBB-4A-H	LR18-15NS-ZAB-4A-H	LR18-23NS-ZBB-4A-H		

Product Parameters





- M18x1

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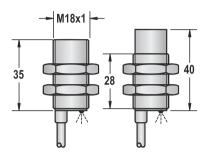
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Size category	M 1	8	M18		
Shielded O Non-shielded		0	•	0	
Sn: mm	5 mm	8 mm	8 mm	16 mm	
Shell material	Nickel-pla	ted brass	Nickel-plat	ed brass	
LED display				1	
Operating voltage	10-30VDC / 5-36VDC /	/ 10-55VDC / 10-60VDC	10-30VDC / 5-36VDC /	10-55VDC / 10-60VDC	
Allowable pulsating voltage	<10		<10'		
No-load current	<10		<10		
Maximum load current)mA	200	mA	
Leakage current	<0.0)1mA	<0.0	1mA	
Voltage drop	<1.5	V	<2.0	V	
Switching frequency	1KHZ	500HZ	500HZ	150HZ	
Response time	0.2ms	0.5ms	0.5ms	1ms	
Switching hysteresis		%(Sr)		%(Sr)	
Repeat accuracy		0%(Sr)		%(Sr)	
Protection level	IP6		IP67	X /	
Operating temperature	-25 [°]	C - +70 [°] C	-25 [°]	C - +70 [°] C	
Temperature drift		%(Sr)		%(Sr)	
Short circuit protection/reverse polarity protection	Ye		Ye	()	
Overload protection current	220)mA	220	mA	
Sensing surface material	PB		РВТ		
Connection method	2m oil-proof 5. 0 φ 3x0.34/5		2m oil-proof 5. 0		
Product Model					
DC 3 wire 10-30V NPN NO	LR18-05NO-ZAA-3M-H	LR18-08NO-ZBA-3M-H	LR18-08NO-ZAA-3M-H	LR18-16NO-ZBA-3	
DC 3 wire 10-30V NPN NC	LR18-05NC-ZAA-3M-H	LR18-08NC-ZBA-3M-H	LR18-08NC-ZAA-3M-H	LR18-16NC-ZBA-3M	
DC 3 wire 10-30V PNP NO	LR18-05PO-ZAA-3M-H	LR18-08PO-ZBA-3M-H	LR18-08PO-ZAA-3M-H	LR18-16PO-ZBA-3M	
DC 3 wire 10-30V PNP NC	LR18-05PC-ZAA-3M-H	LR18-08PC-ZBA-3M-H	LR18-08PC-ZAA-3M-H	LR18-16PC-ZBA-3M	
DC 4 wire 10-30V Convertible PNP (NO&NC)	LR18-05PS-ZAA-4M-H	LR18-08PS-ZBA-4M-H	LR18-08PS-ZAA-4M-H	LR18-16PS-ZBA-4M	
DC 4 wire 10-30V Convertible NPN (NO&NC)	LR18-05NS-ZAA-4M-H	LR18-08NS-ZBA-4M-H	LR18-08NS-ZAA-4M-H	LR18-16NS-ZBA-4N	
DC 2 wire 10-60V NO	LR18-05HO-ZAD-2M-H	LR18-08HO-ZBD-2M-H	LR18-08HO-ZAD-2M-H	LR18-16HO-ZBD-2	
DC 2 wire 10-60V NC	LR18-05HC-ZAD-2M-H	LR18-08HC-ZBD-2M-H	LR18-08HC-ZAD-2M-H	LR18-16HC-ZBD-2M	
DC 3 wire 10-55V NPN NO	LR18-05NO-ZAC-3M-H	LR18-08NO-ZBC-3M-H	LR18-08NO-ZAC-3M-H	LR18-16NO-ZBC-3	
DC 3 wire 10-55V NPN NC	LR18-05NC-ZAC-3M-H	LR18-08NC-ZBC-3M-H	LR18-08NC-ZAC-3M-H	LR18-16NC-ZBC-3M	
DC 3 wire 10-55V PNP NO	LR18-05PO-ZAC-3M-H	LR18-08PO-ZBC-3M-H	LR18-08PO-ZAC-3M-H	LR18-16PO-ZBC-3N	
DC 3 wire 10-55V PNP NC	LR18-05PC-ZAC-3M-H	LR18-08PC-ZBC-3M-H	LR18-08PC-ZAC-3M-H	LR18-16PC-ZBC-3N	
DC 3 wire 5-36V NPN NO	LR18-05PO-ZAB-3M-H	LR18-08PO-ZBB-3M-H	LR18-08PO-ZAB-3M-H	LR18-16PO-ZBB-3N	
DC 3 wire 5-36V NPN NC	LR18-05PC-ZAB-3M-H	LR18-08PC-ZBB-3M-H	LR18-08PC-ZAB-3M-H	LR18-16PC-ZBB-3N	
DC 3 wire 5-36V PNP NO	LR18-05NO-ZAB-3M-H	LR18-08NO-ZBB-3M-H	LR18-08NO-ZAB-3M-H	LR18-16NO-ZBB-3N	
DC 3 wire 5-36V PNP NC	LR18-05NC-ZAB-3M-H	LR18-08NC-ZBB-3M-H	LR18-08NC-ZAB-3M-H	LR18-16NC-ZBB-3N	
DC 4 wire 5-36V Convertible PNP (NO&NC)	LR18-05PS-ZAB-4M-H	LR18-08PS-ZBB-4M-H	LR18-08PS-ZAB-4M-H	LR18-16PS-ZBB-4N	
DC 4 wire 5-36V Convertible NPN (NO&NC)	LR18-05NS-ZAB-4M-H	LR18-08NS-ZBB-4M-H	LR18-08NS-ZAB-4M-H	LR18-16NS-ZBB-4N	

Product Parameters





- M18x1

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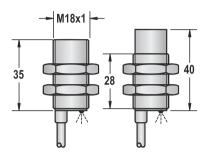
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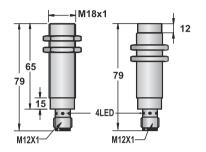


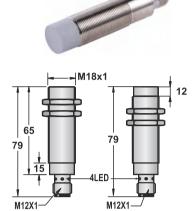
Size category	M 1	18	M18		
● Shielded 🛛 ○ Non-shielded 🛛 ⊖ Semi-shielded	e k	0	Θ	0	
Sn: mm	12 mm	20 mm	15 mm	23 mm	
Shell material	Nickel-pla	ted brass	Nickel-plat	ed brass	
● LED display ○ No LED display)	
Operating voltage	10-30VDC / 5-36VDC /	10-55VDC / 10-60VDC	10-30VDC / 5-36VDC / 10-55VDC / 10-60VDC		
Allowable pulsating voltage	<10		<10%		
No-load current	<10	mA	<10	mA	
Maximum load current	200)mA	200	mA	
Leakage current	<0.0	01mA	<0.0)1mA	
Voltage drop	<2.0	DV	<2.0	V	
Switching frequency	300HZ	100HZ	300HZ	100HZ	
Response time	0.5ms	1ms	0.5ms	1ms	
Switching hysteresis	<15	i%(Sr)	<15	%(Sr)	
Repeat accuracy		0%(Sr))%(Sr)	
Protection level	IP6	7	IP6	7	
Operating temperature	-25 [°]	°C - +70 °C	-25°C - +70°C		
Temperature drift	<10	1%(Sr)	<10%(Sr)		
Short circuit protection/reverse polarity protection		es	Yes		
Overload protection current	220)mA	220mA		
Sensing surface material	PB	т	PBT		
Connection method	2m oil-proof	PVC cable	2m oil-proof PVC cable		
	5. 0 φ 3x0.34/	5.0 \(\phi\) 4x0.25	5.0 \phi 3x0.34/	5.0	
Product Model					
DC 3 wire 10-30V NPN NO	LR18-12NO-ZAA-3M-H	LR18-20NO-ZBA-3M-H	LR18-15NO-ZAA-3M-H	LR18-23NO-ZBA-3	
DC 3 wire 10-30V NPN NC	LR18-12NC-ZAA-3M-H	LR18-20NC-ZBA-3M-H	LR18-15NC-ZAA-3M-H	LR18-23NC-ZBA-3	
DC 3 wire 10-30V PNP NO	LR18-12PO-ZAA-3M-H	LR18-20PO-ZBA-3M-H	LR18-15PO-ZAA-3M-H	LR18-23PO-ZBA-3	
DC 3 wire 10-30V PNP NC	LR18-12PC-ZAA-3M-H	LR18-20PC-ZBA-3M-H	LR18-15PC-ZAA-3M-H	LR18-23PC-ZBA-3	
DC 4 wire 10-30V Convertible PNP (NO&NC)	LR18-12PS-ZAA-4M-H	LR18-20PS-ZBA-4M-H	LR18-15PS-ZAA-4M-H	LR18-23PS-ZBA-4	
DC 4 wire 10-30V Convertible NPN (NO&NC)	LR18-12NS-ZAA-4M-H	LR18-20NS-ZBA-4M-H	LR18-15NS-ZAA-4M-H	LR18-23NS-ZBA-4	
DC 2 wire 10-60V NO	LR18-12HO-ZAD-2M-H	LR18-20HO-ZBD-2M-H	LR18-15HO-ZAD-2M-H	LR18-23HO-ZBD-2	
DC 2 wire 10-60V NC	LR18-12HC-ZAD-2M-H	LR18-20HC-ZBD-2M-H	LR18-15HC-ZAD-2M-H	LR18-23HC-ZBD-2I	
DC 3 wire 10-55V NPN NO	LR18-12NO-ZAC-3M-H	LR18-20NO-ZBC-3M-H	LR18-15NO-ZAC-3M-H	LR18-23NO-ZBC-3	
DC 3 wire 10-55V NPN NC	LR18-12NC-ZAC-3M-H	LR18-20NC-ZBC-3M-H	LR18-15NC-ZAC-3M-H	LR18-23NC-ZBC-3I	
DC 3 wire 10-55V PNP NO	LR18-12PO-ZAC-3M-H	LR18-20PO-ZBC-3M-H	LR18-15PO-ZAC-3M-H	LR18-23PO-ZBC-3	
DC 3 wire 10-55V PNP NC	LR18-12PC-ZAC-3M-H	LR18-20PC-ZBC-3M-H	LR18-15PC-ZAC-3M-H	LR18-23PC-ZBC-3	
DC 3 wire 5-36V NPN NO	LR18-12PO-ZAB-3M-H	LR18-20PO-ZBB-3M-H	LR18-15PO-ZAB-3M-H	LR18-23PO-ZBB-3I	
DC 3 wire 5-36V NPN NC	LR18-12PC-ZAB-3M-H	LR18-20PC-ZBB-3M-H	LR18-15PC-ZAB-3M-H	LR18-23PC-ZBB-3M	
DC 3 wire 5-36V PNP NO	LR18-12NO-ZAB-3M-H	LR18-20NO-ZBB-3M-H	LR18-15NO-ZAB-3M-H	LR18-23NO-ZBB-3	
DC 3 wire 5-36V PNP NC	LR18-12NC-ZAB-3M-H	LR18-20NC-ZBB-3M-H	LR18-15NC-ZAB-3M-H	LR18-23NC-ZBB-3	
DC 4 wire 5-36V Convertible PNP (NO&NC)	LR18-12PS-ZAB-4M-H	LR18-20PS-ZBB-4M-H	LR18-15PS-ZAB-4M-H	LR18-23PS-ZBB-4M	
DC 4 wire 5-36V Convertible NPN (NO&NC)	LR18-12NS-ZAB-4M-H	LR18-20NS-ZBB-4M-H	LR18-15NS-ZAB-4M-H	LR18-23NS-ZBB-4M	

Product Parameters

18 Series





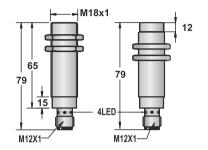


Size category	M	18	M18		
Shielded O Non-shielded		0	•	0	
Sn: mm	5 mm	8 mm	8 mm	16 mm	
Shell material	Nickel-pla	ted brass	Nickel-plat	ted brass	
● LED display ○ No LED display)	•)	
Operating voltage	10-30VDC / 5-36VDC /	10-55VDC / 10-60VDC	10-30VDC / 5-36VDC /	10-55VDC / 10-60VDC	
Allowable pulsating voltage	<10	%	<10	%	
No-load current	<10	mA	<10	mA	
Maximum load current	200)mA	200	mA	
Leakage current	<0.0	01mA	<0.0)1mA	
Voltage drop	<1.5	5V	<2.0	V	
Switching frequency	1KHZ	500HZ	500HZ	150HZ	
Response time	0.2ms	0.5ms	0.5ms	1ms	
Switching hysteresis	<15	%(Sr)	<15	%(Sr)	
Repeat accuracy	<1.0	0%(Sr)	<1.0)%(Sr)	
Protection level	IP6	7	IP67	7	
Operating temperature	-25 [°]	C - +70°C	-25°C - +70°C		
Temperature drift	<10	%(Sr)	<10%(Sr)		
Short circuit protection/reverse polarity protection	Y	es	Yes		
Overload protection current	220)mA	220mA		
Sensing surface material	PB	т	PBT		
Connection method	M12 Con	nectors	M12 Conr	nectors	
Product Model					
DC 3 wire 10-30V NPN NO	LR18-05NO-YAA-TA-H	LR18-08NO-YBA-TA-H	LR18-08NO-YAA-TA-H	LR18-16NO-YBA-T	
DC 3 wire 10-30V NPN NC	LR18-05NC-YAA-TA-H	LR18-08NC-YBA-TA-H	LR18-08NC-YAA-TA-H	LR18-16NC-YBA-T	
DC 3 wire 10-30V PNP NO	LR18-05PO-YAA-TA-H	LR18-08PO-YBA-TA-H	LR18-08PO-YAA-TA-H	LR18-16PO-YBA-TA	
DC 3 wire 10-30V PNP NC	LR18-05PC-YAA-TA-H	LR18-08PC-YBA-TA-H	LR18-08PC-YAA-TA-H	LR18-16PC-YBA-TA	
DC 4 wire 10-30V Convertible PNP (NO&NC)	LR18-05PS-YAA-TA-H	LR18-08PS-YBA-TA-H	LR18-08PS-YAA-TA-H	LR18-16PS-YBA-TA	
DC 4 wire 10-30V Convertible NPN (NO&NC)	LR18-05NS-YAA-TA-H	LR18-08NS-YBA-TA-H	LR18-08NS-YAA-TA-H	LR18-16NS-YBA-T	
DC 2 wire 10-60V NO	LR18-05HO-YAD-TA-H	LR18-08HO-YBD-TA-H	LR18-08HO-YAD-TA-H	LR18-16HO-YBD-T/	
DC 2 wire 10-60V NC	LR18-05HC-YAD-TA-H	LR18-08HC-YBD-TA-H	LR18-08HC-YAD-TA-H	LR18-16HC-YBD-T/	
DC 3 wire 10-55V NPN NO	LR18-05NO-YAC-TA-H	LR18-08NO-YBC-TA-H	LR18-08NO-YAC-TA-H	LR18-16NO-YBC-T	
DC 3 wire 10-55V NPN NC	LR18-05NC-YAC-TA-H	LR18-08NC-YBC-TA-H	LR18-08NC-YAC-TA-H	LR18-16NC-YBC-T/	
DC 3 wire 10-55V PNP NO	LR18-05PO-YAC-TA-H	LR18-08PO-YBC-TA-H	LR18-08PO-YAC-TA-H	LR18-16PO-YBC-T/	
DC 3 wire 10-55V PNP NC	LR18-05PC-YAC-TA-H	LR18-08PC-YBC-TA-H	LR18-08PC-YAC-TA-H	LR18-16PC-YBC-TA	
DC 3 wire 5-36V NPN NO	LR18-05PO-YAB-TA-H	LR18-08PO-YBB-TA-H	LR18-08PO-YAB-TA-H	LR18-16PO-YBB-T	
DC 3 wire 5-36V NPN NC	LR18-05PC-YAB-TA-H	LR18-08PC-YBB-TA-H	LR18-08PC-YAB-TA-H	LR18-16PC-YBB-T/	
DC 3 wire 5-36V PNP NO	LR18-05NO-YAB-TA-H	LR18-08NO-YBB-TA-H	LR18-08NO-YAB-TA-H	LR18-16NO-YBB-T	
DC 3 wire 5-36V PNP NC	LR18-05NC-YAB-TA-H	LR18-08NC-YBB-TA-H	LR18-08NC-YAB-TA-H	LR18-16NC-YBB-T	
DC 4 wire 5-36V Convertible PNP (NO&NC)	LR18-05PS-YAB-TA-H	LR18-08PS-YBB-TA-H	LR18-08PS-YAB-TA-H	LR18-16PS-YBB-TA	
DC 4 wire 5-36V Convertible NPN (NO&NC)	LR18-05NS-YAB-TA-H	LR18-08NS-YBB-TA-H	LR18-08NS-YAB-TA-H	LR18-16NS-YBB-T/	

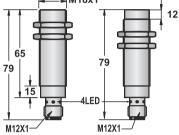
Product Parameters

18 Series





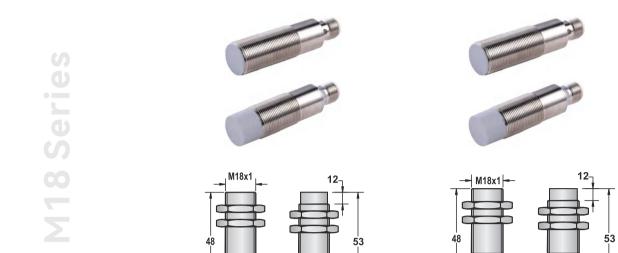




Size category	Μ	18	M18		
● Shielded 🛛 ○ Non-shielded 🛛 ⊖ Semi-shielded	\ominus	0	e	0	
Sn: mm	12 mm	20 mm	15 mm	23 mm	
Shell material	Nickel-pla	ited brass	Nickel-pla	ted brass	
● LED display ○ No LED display					
Operating voltage	10-30VDC / 5-36VDC /	10-55VDC / 10-60VDC	10-30VDC / 5-36VDC /	10-55VDC / 10-60VDC	
Allowable pulsating voltage	<10		<1(
No-load current	<1)mA	<1()mA	
Maximum load current	-	0mA		0mA	
Leakage current		01mA		01mA	
Voltage drop	<2.	0V	<2.	0V	
Switching frequency	300HZ	100HZ	300HZ	100HZ	
Response time	0.5ms	1ms	0.5ms	1ms	
Switching hysteresis		5%(Sr)		5%(Sr)	
Repeat accuracy	<1.	0%(Sr)		0%(Sr)	
Protection level	IP6		IP6		
Operating temperature	-25	°C - +70 °C	-25 [°]	°C - +70 °C	
Temperature drift	<1	0%(Sr)	<1()%(Sr)	
Short circuit protection/reverse polarity protection	Y	es	Yes		
Overload protection current	22	0mA	220mA		
Sensing surface material	PE	BT	PBT		
Connection method	M12 Con	nectors	M12 Connectors		
Product Model					
DC 3 wire 10-30V NPN NO	LR18-12NO-YAA-TA-H	LR18-20NO-YBA-TA-H	LR18-15NO-YAA-TA-H	LR18-23NO-YBA-T/	
DC 3 wire 10-30V NPN NC	LR18-12NC-YAA-TA-H	LR18-20NC-YBA-TA-H	LR18-15NC-YAA-TA-H	LR18-23NC-YBA-T/	
DC 3 wire 10-30V PNP NO	LR18-12PO-YAA-TA-H	LR18-20PO-YBA-TA-H	LR18-15PO-YAA-TA-H	LR18-23PO-YBA-T/	
DC 3 wire 10-30V PNP NC	LR18-12PC-YAA-TA-H	LR18-20PC-YBA-TA-H	LR18-15PC-YAA-TA-H	LR18-23PC-YBA-T/	
DC 4 wire 10-30V Convertible PNP (NO&NC)	LR18-12PS-YAA-TA-H	LR18-20PS-YBA-TA-H	LR18-15PS-YAA-TA-H	LR18-23PS-YBA-TA	
DC 4 wire 10-30V Convertible NPN (NO&NC)	LR18-12NS-YAA-TA-H	LR18-20NS-YBA-TA-H	LR18-15NS-YAA-TA-H	LR18-23NS-YBA-T	
DC 2 wire 10-60V NO	LR18-12HO-YAD-TA-H	LR18-20HO-YBD-TA-H	LR18-15HO-YAD-TA-H	LR18-23HO-YBD-T	
DC 2 wire 10-60V NC	LR18-12HC-YAD-TA-H	LR18-20HC-YBD-TA-H	LR18-15HC-YAD-TA-H	LR18-23HC-YBD-T/	
DC 3 wire 10-55V NPN NO	LR18-12NO-YAC-TA-H	LR18-20NO-YBC-TA-H	LR18-15NO-YAC-TA-H	LR18-23NO-YBC-T	
DC 3 wire 10-55V NPN NC	LR18-12NC-YAC-TA-H	LR18-20NC-YBC-TA-H	LR18-15NC-YAC-TA-H	LR18-23NC-YBC-T/	
DC 3 wire 10-55V PNP NO	LR18-12PO-YAC-TA-H	LR18-20PO-YBC-TA-H	LR18-15PO-YAC-TA-H	LR18-23PO-YBC-T	
DC 3 wire 10-55V PNP NC	LR18-12PC-YAC-TA-H	LR18-20PC-YBC-TA-H	LR18-15PC-YAC-TA-H	LR18-23PC-YBC-T/	
DC 3 wire 5-36V NPN NO	LR18-12PO-YAB-TA-H	LR18-20PO-YBB-TA-H	LR18-15PO-YAB-TA-H	LR18-23PO-YBB-T/	
DC 3 wire 5-36V NPN NC	LR18-12PC-YAB-TA-H	LR18-20PC-YBB-TA-H	LR18-15PC-YAB-TA-H	LR18-23PC-YBB-T/	
DC 3 wire 5-36V PNP NO	LR18-12NO-YAB-TA-H	LR18-20NO-YBB-TA-H	LR18-15NO-YAB-TA-H	LR18-23NO-YBB-T	
DC 3 wire 5-36V PNP NC	LR18-12NC-YAB-TA-H	LR18-20NC-YBB-TA-H	LR18-15NC-YAB-TA-H	LR18-23NC-YBB-T	
DC 4 wire 5-36V Convertible PNP (NO&NC)	LR18-12PS-YAB-TA-H	LR18-20PS-YBB-TA-H	LR18-15PS-YAB-TA-H	LR18-23PS-YBB-T/	
DC 4 wire 5-36V Convertible NPN (NO&NC)	LR18-12NS-YAB-TA-H	LR18-20NS-YBB-TA-H	LR18-15NS-YAB-TA-H	LR18-23NS-YBB-T/	

4I FD

Product Parameters



M12X1 M12X1 M12X1 M12X1 Size category M18 M18 Shielded 0 ○ Non-shielded \cap 16 mm Sn: mm 5 mm 8 mm 8 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 <0.01mA <0.01mA Leakage current Voltage drop <1.5V <2.0V Switching frequency 1KHZ 500HZ 500HZ 150HZ Response time 0.2ms 0.5ms 0.5ms 1ms <15%(Sr) <15%(Sr) Switching hysteresis Repeat accuracy <1.0%(Sr) <1.0%(Sr) IP67 Protection level **IP67** -25°C - +70°C **Operating temperature** -25°C - +70°C **Temperature drift** <10%(Sr) <10%(Sr) Short circuit protection/reverse polarity protection Yes Yes **Overload protection current** 220mA 220mA Sensing surface material PRT PRT **Connection method** M12 Connectors M12 Connectors Product Model LR18-05NO-YAA-TM-H LR18-08NO-YBA-TM-H LR18-08NO-YAA-TM-H LR18-16NO-YBA-TM-H DC 3 wire 10-30V NPN NO DC 3 wire 10-30V NPN NC LR18-05NC-YAA-TM-H LR18-08NC-YBA-TM-H LR18-08NC-YAA-TM-H LR18-16NC-YBA-TM-H LR18-05PO-YAA-TM-H LR18-08PO-YBA-TM-H LR18-08PO-YAA-TM-H LR18-16PO-YBA-TM-H DC 3 wire 10-30V PNP NO DC 3 wire 10-30V PNP NC LR18-05PC-YAA-TM-H LR18-08PC-YBA-TM-H LR18-08PC-YAA-TM-H LR18-16PC-YBA-TM-H DC 4 wire 10-30V Convertible PNP (NO&NC) LR18-05PS-YAA-TM-H LR18-08PS-YBA-TM-H LR18-08PS-YAA-TM-H LR18-16PS-YBA-TM-H LR18-08NS-YBA-TM-H LR18-08NS-YAA-TM-H DC 4 wire 10-30V Convertible NPN (NO&NC) I R18-05NS-YAA-TM-H LR18-16NS-YBA-TM-H LR18-05HO-YAD-TM-H LR18-08HO-YBD-TM-H LR18-08HO-YAD-TM-H LR18-16HO-YBD-TM-H DC 2 wire 10-60V NO DC 2 wire 10-60V NC LR18-05HC-YAD-TM-H LR18-08HC-YBD-TM-H LR18-08HC-YAD-TM-H LR18-16HC-YBD-TM-H LR18-05NO-YAC-TM-H LR18-08NO-YBC-TM-H LR18-08NO-YAC-TM-H LR18-16NO-YBC-TM-H DC 3 wire 10-55V NPN NO DC 3 wire 10-55V NPN NC LR18-05NC-YAC-TM-H LR18-08NC-YBC-TM-H LR18-08NC-YAC-TM-H LR18-16NC-YBC-TM-H LR18-05PO-YAC-TM-H LR18-08PO-YBC-TM-H LR18-16PO-YBC-TM-H LR18-08PO-YAC-TM-H DC 3 wire 10-55V PNP NO LR18-08PC-YBC-TM-H LR18-16PC-YBC-TM-H DC 3 wire 10-55V PNP NC LR18-05PC-YAC-TM-H LR18-08PC-YAC-TM-H DC 3 wire 5-36V NPN NO LR18-05PO-YAB-TM-H LR18-08PO-YBB-TM-H LR18-08PO-YAB-TM-H LR18-16PO-YBB-TM-H

DC 3 wire 5-36V NPN NC LR18-05PC-YAB-TM-H LR18-08PC-YBB-TM-H LR18-08PC-YAB-TM-H DC 3 wire 5-36V PNP NO LR18-05NO-YAB-TM-H LR18-08NO-YBB-TM-H LR18-08NO-YAB-TM-H DC 3 wire 5-36V PNP NC LR18-05NC-YAB-TM-H LR18-08NC-YBB-TM-H LR18-08NC-YAB-TM-H DC 4 wire 5-36V Convertible PNP (NO&NC) LR18-05PS-YAB-TM-H LR18-08PS-YBB-TM-H LR18-08PS-YAB-TM-H DC 4 wire 5-36V Convertible NPN (NO&NC) LR18-05NS-YAB-TM-H LR18-08NS-YBB-TM-H LR18-08NS-YAB-TM-H

LR18-16PC-YBB-TM-H

LR18-16NO-YBB-TM-H

LR18-16NC-YBB-TM-H

LR18-16PS-YBB-TM-H

LR18-16NS-YBB-TM-H

4LED

M12X1

M12X1

Product Parameters



ILED

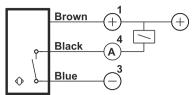
M12X1

M12X1

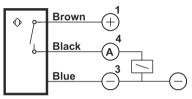
Sizo catagony		0	M18		
Size category	M1	Ŏ	IVI 1	8	
• Shielded \bigcirc Non-shielded \bigcirc Semi-shielded	Θ	0	Θ	0	
Sn: mm	12 mm	20 mm	15 mm	23 mm	
Shell material	Nickel-plat	ed brass	Nickel-plat	ed brass	
● LED display ○ No LED display	•)	•		
Operating voltage	10-30VDC / 5-36VDC / '	10-55VDC / 10-60VDC	10-30VDC / 5-36VDC / 10-55VDC / 10-60VDC		
Allowable pulsating voltage	<10	%	<10%		
No-load current	<10	mA	<10	mA	
Maximum load current	200	mA	200	mA	
Leakage current	<0.0	1mA	<0.0	1mA	
Voltage drop	<2.0	V	<2.0	V	
Switching frequency	300HZ	100HZ	300HZ	100HZ	
Response time	0.5ms	1ms	0.5ms	1ms	
Switching hysteresis	<15	%(Sr)	<15	%(Sr)	
Repeat accuracy	<1.0	9%(Sr)	<1.0%(Sr)		
Protection level	IP67		IP67		
Operating temperature		C - +70 [°] C	-25°C - +70°C		
Temperature drift	<10	%(Sr)	<10%(Sr)		
Short circuit protection/reverse polarity protection	Ye		Yes		
Overload protection current	220		220mA		
Sensing surface material	PB		PBT		
Connection method	M12 Conn	nectors	M12 Conn	ectors	
Product Model					
DC 3 wire 10-30V NPN NO	LR18-12NO-YAA-TM-H	LR18-20NO-YBA-TM-H	LR18-15NO-YAA-TM-H	LR18-23NO-YBA-TM-H	
DC 3 wire 10-30V NPN NC	LR18-12NC-YAA-TM-H	LR18-20NC-YBA-TM-H	LR18-15NC-YAA-TM-H	LR18-23NC-YBA-TM-H	
DC 3 wire 10-30V PNP NO	LR18-12PO-YAA-TM-H	LR18-20PO-YBA-TM-H	LR18-15PO-YAA-TM-H	LR18-23PO-YBA-TM-H	
DC 3 wire 10-30V PNP NC	LR18-12PC-YAA-TM-H	LR18-20PC-YBA-TM-H	LR18-15PC-YAA-TM-H	LR18-23PC-YBA-TM-H	
DC 4 wire 10-30V Convertible PNP (NO&NC)	LR18-12PS-YAA-TM-H	LR18-20PS-YBA-TM-H	LR18-15PS-YAA-TM-H	LR18-23PS-YBA-TM-H	
DC 4 wire 10-30V Convertible NPN (NO&NC)	LR18-12NS-YAA-TM-H	LR18-20NS-YBA-TM-H	LR18-15NS-YAA-TM-H	LR18-23NS-YBA-TM-H	
DC 2 wire 10-60V NO	LR18-12HO-YAD-TM-H	LR18-20HO-YBD-TM-H	LR18-15HO-YAD-TM-H	LR18-23HO-YBD-TM-H	
DC 2 wire 10-60V NC	LR18-12HC-YAD-TM-H	LR18-20HC-YBD-TM-H	LR18-15HC-YAD-TM-H	LR18-23HC-YBD-TM-H	
DC 3 wire 10-55V NPN NO	LR18-12NO-YAC-TM-H	LR18-20NO-YBC-TM-H	LR18-15NO-YAC-TM-H	LR18-23NO-YBC-TM-H	
DC 3 wire 10-55V NPN NC	LR18-12NC-YAC-TM-H	LR18-20NC-YBC-TM-H	LR18-15NC-YAC-TM-H	LR18-23NC-YBC-TM-H	
DC 3 wire 10-55V PNP NO	LR18-12PO-YAC-TM-H	LR18-20PO-YBC-TM-H	LR18-15PO-YAC-TM-H	LR18-23PO-YBC-TM-H	
DC 3 wire 10-55V PNP NC	LR18-12PC-YAC-TM-H	LR18-20PC-YBC-TM-H	LR18-15PC-YAC-TM-H	LR18-23PC-YBC-TM-H	
DC 3 wire 5-36V NPN NO	LR18-12PO-YAB-TM-H	LR18-20PO-YBB-TM-H	LR18-15PO-YAB-TM-H	LR18-23PO-YBB-TM-H	
DC 3 wire 5-36V NPN NC	LR18-12PC-YAB-TM-H	LR18-20PC-YBB-TM-H	LR18-15PC-YAB-TM-H	LR18-23PC-YBB-TM-H	
DC 3 wire 5-36V PNP NO	LR18-12NO-YAB-TM-H	LR18-20NO-YBB-TM-H	LR18-15NO-YAB-TM-H	LR18-23NO-YBB-TM-H	
DC 3 wire 5-36V PNP NC	LR18-12NC-YAB-TM-H	LR18-20NC-YBB-TM-H	LR18-15NC-YAB-TM-H	LR18-23NC-YBB-TM-H	
DC 4 wire 5-36V Convertible PNP (NO&NC)	LR18-12PS-YAB-TM-H	LR18-20PS-YBB-TM-H	LR18-15PS-YAB-TM-H	LR18-23PS-YBB-TM-H	
DC 4 wire 5-36V Convertible NPN (NO&NC)	LR18-12NS-YAB-TM-H	LR18-20NS-YBB-TM-H	LR18-15NS-YAB-TM-H	LR18-23NS-YBB-TM-H	

Wiring Diagram

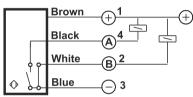
DC NPN NO



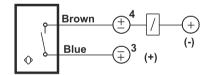
DC PNP NO

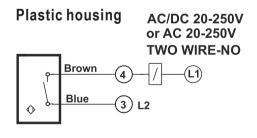


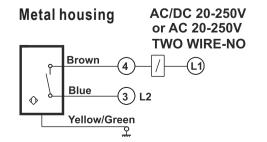
DC NPN NO&NC



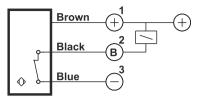
DC 2 wire NO



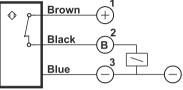




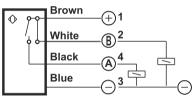




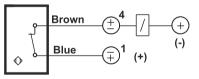


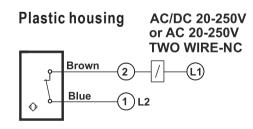


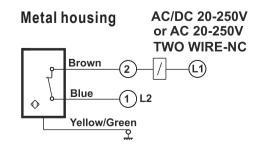
DC PNP NO&NC



DC 2 wire NC

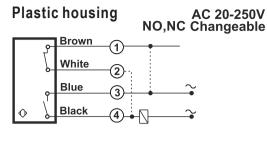






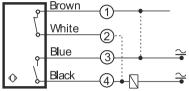
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Wiring Diagram

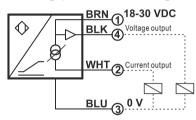


Plastic housing

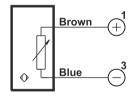




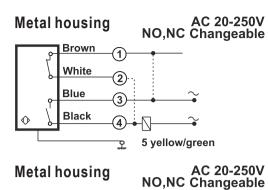
Analog (current + voltage output type)

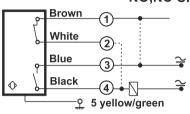


Riot-proof DC 6-12V

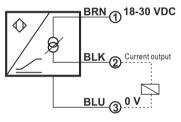


Connector Diagram

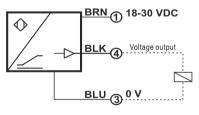


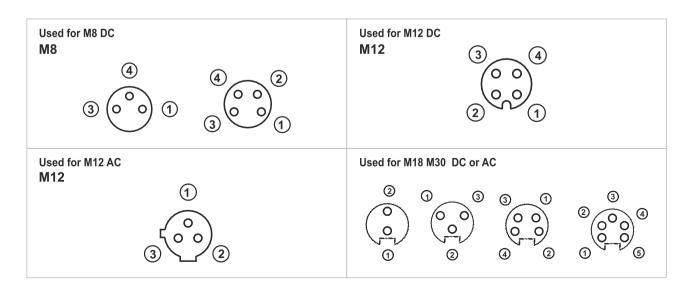


Analog (current output type)



Analog (voltage output type)





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