

TECHNICAL DATA SHEET

Inductive Proximity Switches **Proximity Sensors** Weld and magnetic immune 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° 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

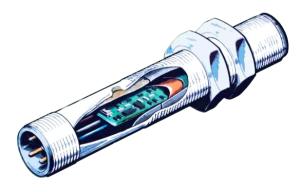
Whichever manufacturer of shoemaking machines, textile machines and papermaking machines has long equipped the mechanical equipment they produce with more automated operation technologies, these control technologies are also equipped with high-quality sensors to achieve their control conditions. They 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	D	0	8	- 0	1	Ν	0	Ζ	А	A -	- 3	A	- H	(LD08-01NO-ZAA-3A-H)
								Τ	Τ	Τ	Τ	T	ΤT	- 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
														Output mode: 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: AC NO&NC I: analog current; U: analog voltage TC: AC&DC NC; TO: AC&DC NO TS: AC/DC NO&NC V: Current + voltage output NA: Explosion-proof type
														— 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 type;
														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



Weld and magnetic immune Series

Proximity sensors

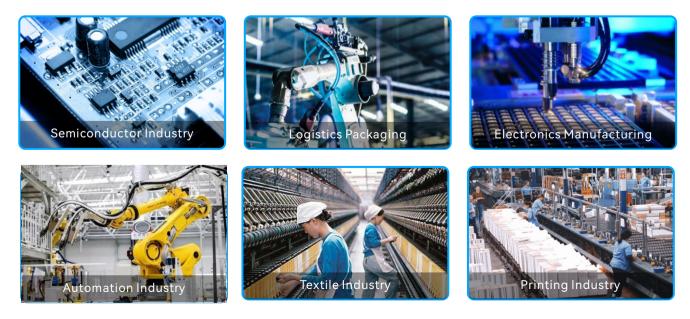
This series features recognition of metal targets, large sensing range, multiple types, and tolerance to magnetic fields and welding spatter, etc.

Features:

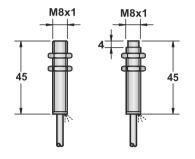
- \cdot Features: applied in weld splash and high magnetic ambient surroundings
- ·Size: M8, M12, M18, M30
- ·Sensing distance: 1-15mm
- ·Frequency: 1000HZ
- · Certificate: CE, ROHS

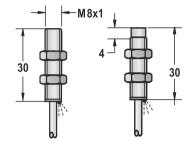


Application Industry



/eld And Magnetic nmune Series 



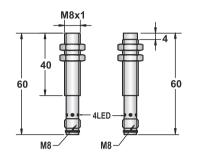


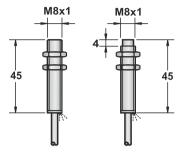
Size category	Μ	8	M8		
Shielded ONon-shielded	•	0	•	0	
Sn: mm	1 mm	2 mm	1 mm	2 mm	
Shell material	Brass, Tefl	on coating	Brass, Teflo	n coating	
● LED display ○ No LED display)			
Operating voltage	10-30VDC /	10-60VDC	10-30VDC /	10-60VDC	
Allowable pulsating voltage	<10		<10		
No-load current	<10	mA	<10		
Maximum load current	200)mA	200	mA	
Leakage current	<0.	01mA	<0.0	1mA	
Voltage drop	<1.5	5V	<1.5	įν	
Switching frequency	1KF		1KF	-	
Response time	0.1n		0.1n		
Switching hysteresis		i%(Sr)		%(Sr)	
Constant magnetic field B	150		150		
Alternating magnetic field B	150		150		
Repeat accuracy	<1.	0%(Sr)	<1.0	%(Sr)	
Protection level	IP6		IP67	· · /	
Working temperature	-25 [°]	°C - +70 °C	-25°	C - +70 [°] C	
Temperature drift		1%(Sr)		%(Sr)	
Short circuit protection/reverse polarity protection	Yes	5	Yes		
Overload protection current	220	mA	220	nA	
Sensing surface material	PTI	FE	PTF	E	
Connection method	Oil-proof PUR/Teflor	n/Silicone 2m cable	Oil-proof PUR/Teflo	n/Silicone 2m cable	
Product Model					
DC 3 wire 10-30V NPN NO	LD08-01NO-ZAA-3A-H	LD08-02NO-ZBA-3A-H	LD08-01NO-ZAA-3M-H	LD08-02NO-ZBA-3	
DC 3 wire 10-30V NPN NC	LD08-01NC-ZAA-3A-H	LD08-02NC-ZBA-3A-H	LD08-01NC-ZAA-3M-H	LD08-02NC-ZBA-3	
DC 3 wire 10-30V PNP NO	LD08-01PO-ZAA-3A-H	LD08-02PO-ZBA-3A-H	LD08-01PO-ZAA-3M-H	LD08-02PO-ZBA-3	
DC 3 wire 10-30V PNP NC	LD08-01PC-ZAA-3A-H	LD08-02PC-ZBA-3A-H	LD08-01PC-ZAA-3M-H	LD08-02PC-ZBA-3	
DC 4 wire 10-30V Convertible PNP (NO&NC)	LD08-01NS-ZAA-4A-H	LD08-02NS-ZBA-4A-H	LD08-01NS-ZAA-4M-H	LD08-02NS-ZBA-4	
DC 4 wire 10-30V Convertible NPN (NO&NC)	LD08-01PS-ZAA-4A-H	LD08-02PS-ZBA-4A-H	LD08-01PS-ZAA-4M-H	LD08-02PS-ZBA-4	
DC 2 wire 10-60V NO	LD08-01HO-ZAD-2A-H	LD08-02HO-ZBD-2A-H	LD08-01HO-ZAD-2M-H	LD08-02HO-ZBD-2	
DC 2 wire 10-60V NC	LD08-01HC-ZAD-2A-H	LD08-02HC-ZBD-2A-H	LD08-01HC-ZAD-2M-H	LD08-02HC-ZBD-2	
DC 3 wire 10-55V NPN NO					
DC 3 wire 10-55V NPN NC					
DC 3 wire 10-55V PNP NO					
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)					









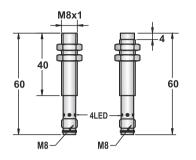


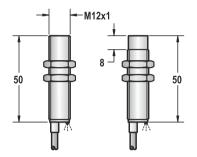
Size category	Μ	8	M8		
Shielded O Non-shielded	•	0	•	0	
Sn: mm	1 mm	2 mm	2 mm	4mm	
Shell material	Brass, Tefl	on coating	Brass, Teflo	n coating	
● LED display ○ No LED display)			
Operating voltage	10-30VDC /	10-60VDC	10-30VDC /	10-60VDC	
Allowable pulsating voltage	<10	%	<10'		
No-load current	<10	mA	<10	mA	
Maximum load current	200)mA	200	mA	
Leakage current	<0.	01mA	<0.0	1mA	
Voltage drop	<1.5	SV	<1.5	5V	
Switching frequency	1KH	Z	1KHZ	800HZ	
Response time	0.1n		0.1ms	0.1ms	
Switching hysteresis		%(Sr)		%(Sr)	
Constant magnetic field B	150	()	150		
Alternating magnetic field B	150		150		
Repeat accuracy		0%(Sr)		%(Sr)	
Protection level	IP6	()	IP67		
Working temperature		C - +70°C		C - +70 [°] C	
Temperature drift		%(Sr)		%(Sr)	
Short circuit protection/reverse polarity protection	Yes	• •	Yes		
Overload protection current	220	mA	220mA		
Sensing surface material	PT	E	PTF	E	
Connection method	M8 Con	nector	Oil-proof PUR/Teflo	n/Silicone 2m cable	
Product Model			•		
DC 3 wire 10-30V NPN NO	LD08-01NO-YAA-EA-H	LD08-02NO-YBA-EA-H	LD08-02NO-ZAA-3A-H	LD08-04NO-ZBA-3A	
DC 3 wire 10-30V NPN NC	LD08-01NC-YAA-EA-H	LD08-02NC-YBA-EA-H	LD08-02NC-ZAA-3A-H	LD08-04NC-ZBA-3A	
DC 3 wire 10-30V PNP NO	LD08-01PO-YAA-EA-H	LD08-02PO-YBA-EA-H	LD08-02PO-ZAA-3A-H	LD08-04PO-ZBA-3A	
DC 3 wire 10-30V PNP NC	LD08-01PC-YAA-EA-H	LD08-02PC-YBA-EA-H	LD08-02PC-ZAA-3A-H	LD08-04PC-ZBA-3A	
DC 4 wire 10-30V Convertible PNP (NO&NC)	LD08-01NS-YAA-EA-H	LD08-02NS-YBA-EA-H	LD08-02NS-ZAA-4A-H	LD08-04NS-ZBA-4A	
DC 4 wire 10-30V Convertible NPN (NO&NC)	LD08-01PS-YAA-EA-H	LD08-02PS-YBA-EA-H	LD08-02PS-ZAA-4A-H	LD08-04PS-ZBA-4A	
DC 2 wire 10-60V NO	LD08-01HO-YAD-EA-H	LD08-02HO-YBD-EA-H	LD08-02HO-ZAD-2A-H	LD08-04HO-ZBD-2A	
DC 2 wire 10-60V NC	LD08-01HC-YAD-EA-H	LD08-02HC-YBD-EA-H	LD08-02HC-ZAD-2A-H	LD08-04HC-ZBD-2A	
DC 3 wire 10-55V NPN NO		,		,	
DC 3 wire 10-55V NPN NC					
DC 3 wire 10-55V PNP NO					
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)					

Veld And Magnetic nmune Series







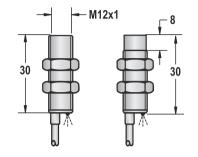


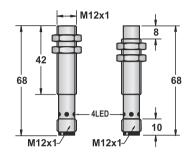
Size category	Μ	8	M1	2
Shielded O Non-shielded	•	0	•	0
Sn: mm	2 mm	4mm	2 mm	4mm
Shell material	Brass, Tefle	on coating	Brass, Teflo	n coating
▶ LED display ○ No LED display)		
Derating voltage	10-30VDC /	10-60VDC	10-30VDC /	10-60VDC
Allowable pulsating voltage	<10		<10	
No-load current	<10		<10	
Maximum load current)mA	200	
_eakage current	<0.0)1mA		1mA
/oltage drop	<1.5		<1.5	
Switching frequency	1KHZ	800HZ	1KHZ	800HZ
Response time	0.1ms	0.1ms	0.1ms	0.1ms
Switching hysteresis		%(Sr)		%(Sr)
Constant magnetic field B	150		150	
Alternating magnetic field B	150		150	
Repeat accuracy)%(Sr)		%(Sr)
Protection level	IP6	()	IP67	()
Norking temperature		С - +70 [°] С		C - +70 [°] C
Femperature drift		%(Sr)	<10%(Sr)	
Short circuit protection/reverse polarity protection	Yes		Yes	
Overload protection current	220		220mA	
Sensing surface material	PTF		PTFE	
Connection method	M8 Con	-	Oil-proof PUR/Teflo	-
Product Model			p	
DC 3 wire 10-30V NPN NO	LD08-02NO-YAA-EA-H	LD08-04NO-YBA-EA-H	LD12-02NO-ZAA-3A-H	LD12-04NO-ZBA-
DC 3 wire 10-30V NPN NC	LD08-02NC-YAA-EA-H	LD08-04NC-YBA-EA-H	LD12-02NC-ZAA-3A-H	LD12-04NC-ZBA-
OC 3 wire 10-30V PNP NO	LD08-02PO-YAA-EA-H	LD08-04PO-YBA-EA-H	LD12-02PO-ZAA-3A-H	LD12-04PO-ZBA-
DC 3 wire 10-30V PNP NC	LD08-02PC-YAA-EA-H	LD08-04PC-YBA-EA-H	LD12-02PC-ZAA-3A-H	LD12-04PC-ZBA-3
OC 4 wire 10-30V Convertible PNP (NO&NC)	LD08-02NS-YAA-EA-H	LD08-04NS-YBA-EA-H	LD12-02NS-ZAA-4A-H	LD12-04NS-ZBA-4
DC 4 wire 10-30V Convertible NPN (NO&NC)	LD08-02PS-YAA-EA-H	LD08-04PS-YBA-EA-H	LD12-02PS-ZAA-4A-H	LD12-04PS-ZBA-4
DC 2 wire 10-60V NO	LD08-02HO-YAD-EA-H	LD08-04HO-YBD-EA-H	LD12-02HO-ZAD-2A-H	LD12-04HO-ZBD-2
DC 2 wire 10-60V NC	LD08-02HC-YAD-EA-H	LD08-04HC-YBD-EA-H	LD12-02HC-ZAD-2A-H	LD12-04HC-ZBD-
OC 3 wire 10-55V NPN NO				
DC 3 wire 10-55V NPN NC				
OC 3 wire 10-55V PNP NO				
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				

Veld And Magnetic nmune Series





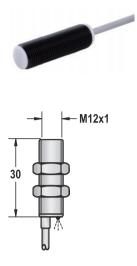




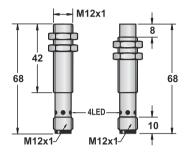
Size category	Μ	12	M12		
Shielded O Non-shielded	•	0	•	0	
Sn: mm	2 mm	4mm	2 mm	4mm	
Shell material	Brass, Tef	lon coating	Brass, Tefl	on coating	
● LED display ○ No LED display					
Operating voltage	10-30VDC	/ 10-60VDC	10-30VDC	10-60VDC	
Allowable pulsating voltage	<1	0%	<1()%	
No-load current	<1	0mA	<1()mA	
Maximum load current	20	0mA	20	0mA	
Leakage current	<0	.01mA	<0.	01mA	
Voltage drop	<1.	5V	<1.	5V	
Switching frequency	1KHZ	800HZ	1KHZ	800HZ	
Response time	0.1ms	0.5ms	0.1ms	0.1ms	
Switching hysteresis	<1	5%(Sr)	<15	5%(Sr)	
Constant magnetic field B	15	0mT	150)mT	
Alternating magnetic field B	15	0mT	150)mT	
Repeat accuracy	<1	.0%(Sr)	<1.	0%(Sr)	
Protection level	IP	67	IP6	7	
Working temperature	-25	°C - +70 [°] C	-25	°C - +70°C	
Temperature drift	<1	0%(Sr)	<10%(Sr)		
Short circuit protection/reverse polarity protection	Ye	S	Ye	S	
Overload protection current	22	0mA	220mA		
Sensing surface material	PT	FE	PT	FE	
Connection method	Oil-proof PUR/Teflo	on/Silicone 2m cable	M12 Coi	nnector	
Product Model					
DC 3 wire 10-30V NPN NO	LD12-02NO-ZAA-3M-H	LD12-04NO-ZBA-3M-H	LD12-02NO-YAA-TA-H	LD12-04NO-YBA-TA	
DC 3 wire 10-30V NPN NC	LD12-02NC-ZAA-3M-H	LD12-04NC-ZBA-3M-H	LD12-02NC-YAA-TA-H	LD12-04NC-YBA-TA	
DC 3 wire 10-30V PNP NO	LD12-02PO-ZAA-3M-H	LD12-04PO-ZBA-3M-H	LD12-02PO-YAA-TA-H	LD12-04PO-YBA-TA	
DC 3 wire 10-30V PNP NC	LD12-02PC-ZAA-3M-H	LD12-04PC-ZBA-3M-H	LD12-02PC-YAA-TA-H	LD12-04PC-YBA-TA	
DC 4 wire 10-30V Convertible PNP (NO&NC)	LD12-02NS-ZAA-4M-H	LD12-04NS-ZBA-4M-H	LD12-02NS-YAA-TA-H	LD12-04NS-YBA-TA	
DC 4 wire 10-30V Convertible NPN (NO&NC)	LD12-02PS-ZAA-4M-H	LD12-04PS-ZBA-4M-H	LD12-02PS-YAA-TA-H	LD12-04PS-YBA-TA	
DC 2 wire 10-60V NO	LD12-02HO-ZAD-2M-H	LD12-04HO-ZBD-2M-H	LD12-02HO-YAD-TA-H	LD12-04HO-YBD-TA	
DC 2 wire 10-60V NC	LD12-02HC-ZAD-2M-H	LD12-04HC-ZBD-2M-H	LD12-02HC-YAD-TA-H	LD12-04HC-YBD-TA	
DC 3 wire 10-55V NPN NO					
DC 3 wire 10-55V NPN NC					
DC 3 wire 10-55V PNP NO					
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)					

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Mag					
Weld And Immune So				x1 8 - 50 0 - 50	
Size category	М	12	M	12	
Shielded ONon-shielded	•	0	•	0	
Sn: mm	2 mm	4mm	4mm	8mm	
Shell material	Brass, Tef	on coating	Brass, Tefl	on coating	
● LED display ○ No LED display					
Operating voltage	10-30VDC	/ 10-60VDC	10-30VDC /	10-60VDC	
Allowable pulsating voltage	<1	0%	<10%		
No-load current		0mA	<10mA		
Maximum load current		0mA	200mA		
Leakage current		.01mA	<0.01mA <1.5V		
Voltage drop	<1.				
Switching frequency Response time	1KHZ 0.1ms	800HZ 0.1ms	1KHZ 0.1ms	800HZ 0.1ms	
Switching hysteresis		5%(Sr)		5%(Sr)	
Constant magnetic field B		DmT)mT	
Alternating magnetic field B		DmT		mT	
Repeat accuracy	<1.	.0%(Sr)	<1.	0%(Sr)	
Protection level	IPe		IP6		
Working temperature		°C - +70 °C		°C - +70°C	
Temperature drift		0%(Sr))%(Sr)	
Short circuit protection/reverse polarity protection Overload protection current	Ye	s DmA	Yes	s ImA	
Sensing surface material		FE	PT		
Connection method		nnector	Oil-proof PUR/Teflo		
Product Model					
DC 3 wire 10-30V NPN NO	LD12-02NO-YAA-TM-H	LD12-04NO-YBA-TM-H	LD12-04NO-ZAA-3A-H	LD12-08NO-ZBA-3A-H	
DC 3 wire 10-30V NPN NC	LD12-02NC-YAA-TM-H	LD12-04NC-YBA-TM-H	LD12-04NC-ZAA-3A-H	LD12-08NC-ZBA-3A-H	
DC 3 wire 10-30V PNP NO	LD12-02PO-YAA-TM-H	LD12-04PO-YBA-TM-H	LD12-04PO-ZAA-3A-H	LD12-08PO-ZBA-3A-H	
DC 3 wire 10-30V PNP NC	LD12-02PC-YAA-TM-H LD12-02NS-YAA-TM-H	LD12-04PC-YBA-TM-H	LD12-04PC-ZAA-3A-H	LD12-08PC-ZBA-3A-H	
DC 4 wire 10-30V Convertible PNP (NO&NC) DC 4 wire 10-30V Convertible NPN (NO&NC)	LD12-02PS-YAA-TM-H	LD12-04NS-YBA-TM-H LD12-04PS-YBA-TM-H	LD12-04NS-ZAA-4A-H LD12-04PS-ZAA-4A-H	LD12-08NS-ZBA-4A-H LD12-08PS-ZBA-4A-H	
DC 2 wire 10-60V NO	LD12-02HO-YAD-TM-H	LD12-04HO-YBD-TM-H	LD12-04HO-ZAD-2A-H	LD12-08HO-ZBD-2A-H	
DC 2 wire 10-60V NC	LD12-02HC-YAD-TM-H	LD12-04HC-YBD-TM-H	LD12-04HC-ZAD-2A-H	LD12-08HC-ZBD-2A-H	
DC 3 wire 10-55V NPN NO			·		
DC 3 wire 10-55V NPN NC					
DC 3 wire 10-55V PNP NO					
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)					

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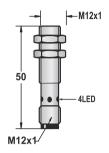


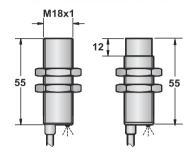
Size category	M12	M	12
Shielded O Non-shielded	•	•	0
Sn: mm	4mm	4mm	8mm
Shell material	Brass, Teflon coating	Brass, Tefl	on coating
● LED display ○ No LED display	•		
Operating voltage	10-30VDC / 10-60VDC	10-30VDC	/ 10-60VDC
Allowable pulsating voltage	<10%		0%
No-load current	<10mA		DmA
Maximum load current	200mA		0mA
Leakage current	<0.01mA		01mA
Voltage drop	<1.5V		5V
Switching frequency	800HZ	800HZ	500HZ
Response time	0.5ms	0.2ms	0.5ms
Switching hysteresis	<15%(Sr)		5%(Sr)
Constant magnetic field B	150mT)mT
Alternating magnetic field B	150mT)mT
Repeat accuracy	<1.0%(Sr)		0%(Sr)
Protection level	IP67	IPE	()
Working temperature	-25°C - +70°C		°C - +70 °C
Temperature drift	<10%(Sr)		0%(Sr)
Short circuit protection/reverse polarity protection	Yes	Ye	s
Overload protection current	220mA)mA
Sensing surface material	PTFE	PT	FE
Connection method	Oil-proof PUR/Teflon/Silicone 2m cable		nnector
Product Model	•		
DC 3 wire 10-30V NPN NO	LD12-04NO-ZAA-3M-H	LD12-04NO-YAA-TA-H	LD12-08NO-YBA-TA-H
DC 3 wire 10-30V NPN NC	LD12-04NC-ZAA-3M-H	LD12-04NC-YAA-TA-H	LD12-08NC-YBA-TA-H
DC 3 wire 10-30V PNP NO	LD12-04PO-ZAA-3M-H	LD12-04PO-YAA-TA-H	LD12-08PO-YBA-TA-H
DC 3 wire 10-30V PNP NC	LD12-04PC-ZAA-3M-H	LD12-04PC-YAA-TA-H	LD12-08PC-YBA-TA-H
DC 4 wire 10-30V Convertible PNP (NO&NC)	LD12-04NS-ZAA-4M-H	LD12-04NS-YAA-TA-H	LD12-08NS-YBA-TA-H
DC 4 wire 10-30V Convertible NPN (NO&NC)	LD12-04PS-ZAA-4M-H	LD12-04PS-YAA-TA-H	LD12-08PS-YBA-TA-H
DC 2 wire 10-60V NO	LD12-04HO-ZAD-2M-H	LD12-04HO-YAD-TA-H	LD12-08HO-YBD-TA-H
DC 2 wire 10-60V NC	LD12-04HC-ZAD-2M-H	LD12-04HC-YAD-TA-H	LD12-08HC-YBD-TA-H
DC 3 wire 10-55V NPN NO			
DC 3 wire 10-55V NPN NC			
DC 3 wire 10-55V PNP NO			
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)			

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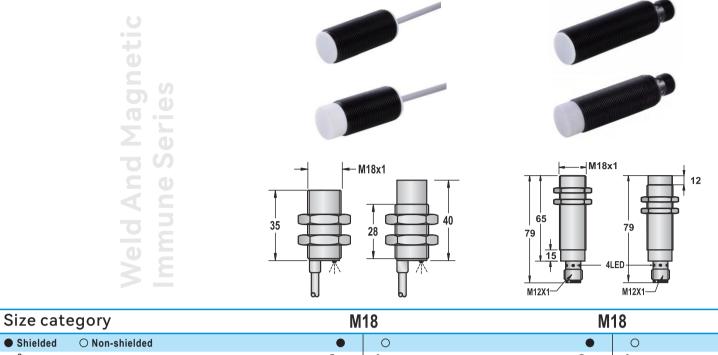








Size category	M12	M1	8
Shielded O Non-shielded	•		0
Sn: mm	4mm	5mm	8mm
Shell material	Brass, Teflon coating	Brass, Teflo	n coating
▶ LED display ○ No LED display	•		U U
Operating voltage	10-30VDC / 10-60VDC	10-30VDC /	10-60VDC
Allowable pulsating voltage	<10%	<10	
No-load current	<10mA	<10	
Maximum load current	200mA	200	
Leakage current	<0.01mA		1mA
Voltage drop	<1.5V	<1.5	
Switching frequency	1KHZ	800HZ	500HZ
Response time	0.1ms	0.2ms	0.5ms
Switching hysteresis	<15%(Sr)		%(Sr)
Constant magnetic field B	150mT	150	
Alternating magnetic field B	150mT	150	
Repeat accuracy	<1.0%(Sr)		%(Sr)
Protection level	IP67	IP67	()
Working temperature	-25°C - +70°C		C - +70 [°] C
Temperature drift	<10%(Sr)		%(Sr)
Short circuit protection/reverse polarity protection	Yes	Yes	
Overload protection current	220mA	220	
Sensing surface material	PTFE	PTF	
Connection method	M12 Connector	Oil-proof PUR/Teflon	/Silicone 2m cable
Product Model		·	
DC 3 wire 10-30V NPN NO	LD12-04NO-YAA-TM-H	LD18-05NO-ZAA-3A-H	LD18-08NO-ZBA-3
DC 3 wire 10-30V NPN NC	LD12-04NC-YAA-TM-H	LD18-05NC-ZAA-3A-H	LD18-08NC-ZBA-3
DC 3 wire 10-30V PNP NO	LD12-04PO-YAA-TM-H	LD18-05PO-ZAA-3A-H	LD18-08PO-ZBA-3
DC 3 wire 10-30V PNP NC	LD12-04PC-YAA-TM-H	LD18-05PC-ZAA-3A-H	LD18-08PC-ZBA-3
DC 4 wire 10-30V Convertible PNP (NO&NC)	LD12-04NS-YAA-TM-H	LD18-05NS-ZAA-4A-H	LD18-08NS-ZBA-4
DC 4 wire 10-30V Convertible NPN (NO&NC)	LD12-04PS-YAA-TM-H	LD18-05PS-ZAA-4A-H	LD18-08PS-ZBA-4
DC 2 wire 10-60V NO	LD12-04HO-YAD-TM-H	LD18-05HO-ZAD-2A-H	LD18-08HO-ZBD-2
DC 2 wire 10-60V NC	LD12-04HC-YAD-TM-H	LD18-05HC-ZAD-2A-H	LD18-08HC-ZBD-2
DC 3 wire 10-55V NPN NO			1
DC 3 wire 10-55V NPN NC			
DC 3 wire 10-55V PNP NO			
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)			

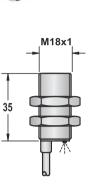


Shielded O Non-shielded	•	0	•	0		
Sn: mm	5mm	8mm	5mm	8mm		
Shell material	Brass, Tefl	on coating	Brass, Tefl	on coating		
● LED display 🔿 No LED display		•				
Operating voltage	10-30VDC	/ 10-60VDC	10-30VDC	/ 10-60VDC		
Allowable pulsating voltage	<1	0%	<1	<10%		
No-load current	<1	0mA	<1	DmA		
Maximum load current	20	00mA	20	0mA		
Leakage current		.01mA	<0	01mA		
Voltage drop	<1	.5V	<1.	5V		
Switching frequency	800HZ	500HZ	800HZ	500HZ		
Response time	0.2ms	0.5ms	0.2ms	0.5ms		
Switching hysteresis	<1	5%(Sr)	<1:	5%(Sr)		
Constant magnetic field B	15	0mT	150)mT		
Alternating magnetic field B		0mT)mT		
Repeat accuracy		.0%(Sr)		.0%(Sr)		
Protection level	IP		IPe			
Working temperature		°C - +70°C	-25°C - +70°C			
Temperature drift		0%(Sr)	<10%(Sr)			
Short circuit protection/reverse polarity protection	Ye		Yes			
Overload protection current		0mA	220mA			
Sensing surface material		FE	PTFE			
Connection method	Oil-proof PUR/Teflo	on/Silicone 2m cable	M12 Co	M12 Connector		
Product Model						
DC 3 wire 10-30V NPN NO	LD18-05NO-ZAA-3M-H	LD18-08NO-ZBA-3M-H	LD18-05NO-YAA-TA-H	LD18-08NO-YBA-TA-H		
DC 3 wire 10-30V NPN NC	LD18-05NC-ZAA-3M-H	LD18-08NC-ZBA-3M-H	LD18-05NC-YAA-TA-H	LD18-08NC-YBA-TA-H		
DC 3 wire 10-30V PNP NO	LD18-05PO-ZAA-3M-H	LD18-08PO-ZBA-3M-H	LD18-05PO-YAA-TA-H	LD18-08PO-YBA-TA-H		
DC 3 wire 10-30V PNP NC	LD18-05PC-ZAA-3M-H	LD18-08PC-ZBA-3M-H	LD18-05PC-YAA-TA-H	LD18-08PC-YBA-TA-H		
DC 4 wire 10-30V Convertible PNP (NO&NC)	LD18-05NS-ZAA-4M-H	LD18-08NS-ZBA-4M-H	LD18-05NS-YAA-TA-H	LD18-08NS-YBA-TA-H		
DC 4 wire 10-30V Convertible NPN (NO&NC)	LD18-05PS-ZAA-4M-H	LD18-08PS-ZBA-4M-H	LD18-05PS-YAA-TA-H	LD18-08PS-YBA-TA-H		
DC 2 wire 10-60V NO	LD18-05HO-ZAD-2M-H	LD18-08HO-ZBD-2M-H	LD18-05HO-YAD-TA-H	LD18-08HO-YBD-TA-H		
DC 2 wire 10-60V NC	LD18-05HC-ZAD-2M-H	LD18-08HC-ZBD-2M-H	LD18-05HC-YAD-TA-H	LD18-08HC-YBD-TA-H		
DC 3 wire 10-55V NPN NO						
DC 3 wire 10-55V NPN NC						
DC 3 wire 10-55V PNP NO						
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 NO DC 3 wire 5-36V PNP NC						
DC 3 wire 5-36V PNP NC DC 4 wire 5-36V Convertible PNP (NO&NC)						
DC 4 wire 5-36V Convertible PNP (NO&NC)						

Product Parameters					
Magnetic eries					
Weld And Immune S			M18x1 12 55		
Size category	Μ	18	M1	8	
Shielded O Non-shielded	•	0	•	0	
Sn: mm	5mm	8mm	8mm	16mm	
Shell material	Brass, Tefl	on coating	Brass, Teflo	n coating	
● LED display ○ No LED display	40.20\/DC	/ 10-60VDC	10-30VDC /		
Operating voltage Allowable pulsating voltage		0%	10-30VDC/ <10		
No-load current		0mA	<10mA		
Maximum load current	20	0mA	200	mA	
Leakage current		.01mA		1mA	
Voltage drop		.5V	<1.5		
Switching frequency Response time	800HZ 0.2ms	500HZ 0.5ms	800HZ 0.2ms	500HZ 0.5ms	
Switching hysteresis		5%(Sr)		%(Sr)	
Constant magnetic field B		0mT	150		
Alternating magnetic field B		0mT	150		
Repeat accuracy		.0%(Sr)		%(Sr)	
Protection level	IP(IP67	0	
Working temperature Temperature drift		°C - +70°C 0%(Sr)		C - +70 °C %(Sr)	
Short circuit protection/reverse polarity protection	Ye		Yes	• •	
Overload protection current		0mA	220		
Sensing surface material		FE	PTF		
Connection method Product Model	M12 Co	nnector	Oil-proof PUR/Teflon	Silicone 2m Cable	
DC 3 wire 10-30V NPN NO	LD18-05NO-YAA-TM-H	LD18-08NO-YBA-TM-H	LD18-08NO-ZAA-3A-H	LD18-16NO-ZBA-3A-H	
DC 3 wire 10-30V NPN NC	LD18-05NC-YAA-TM-H	LD18-08NC-YBA-TM-H	LD18-08NC-ZAA-3A-H	LD18-16NC-ZBA-3A-H	
DC 3 wire 10-30V PNP NO	LD18-05PO-YAA-TM-H	LD18-08PO-YBA-TM-H	LD18-08PO-ZAA-3A-H	LD18-16PO-ZBA-3A-H	
DC 3 wire 10-30V PNP NC	LD18-05PC-YAA-TM-H	LD18-08PC-YBA-TM-H	LD18-08PC-ZAA-3A-H	LD18-16PC-ZBA-3A-H	
DC 4 wire 10-30V Convertible PNP (NO&NC) DC 4 wire 10-30V Convertible NPN (NO&NC)	LD18-05NS-YAA-TM-H LD18-05PS-YAA-TM-H	LD18-08NS-YBA-TM-H LD18-08PS-YBA-TM-H	LD18-08NS-ZAA-4A-H LD18-08PS-ZAA-4A-H	LD18-16NS-ZBA-4A-H LD18-16PS-ZBA-4A-H	
DC 2 wire 10-60V NO	LD18-05HO-YAD-TM-H	LD18-08HO-YBD-TM-H	LD18-08HO-ZAD-2A-H	LD18-16HO-ZBD-2A-H	
DC 2 wire 10-60V NC	LD18-05HC-YAD-TM-H	LD18-08HC-YBD-TM-H	LD18-08HC-ZAD-2A-H	LD18-16HC-ZBD-2A-H	
DC 3 wire 10-55V NPN NO					
DC 3 wire 10-55V NPN NC					
DC 3 wire 10-55V PNP NO 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 PNP (NO&NC) DC 4 wire 5-36V Convertible NPN (NO&NC)







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	a	M12X1	M12X1—	
Size category	M18	M18		
Shielded O Non-shielded	•	•	0	
Sn: mm	8mm	8mm	16mm	
Shell material	Brass, Teflon coating	Brass, Tefl	on coating	
● LED display ○ No LED display	•			
Operating voltage	10-30VDC / 10-60VDC	10-30VDC	/ 10-60VDC	
Allowable pulsating voltage	<10%	<1	<10%	
No-load current	<10mA	<1)mA	
Maximum load current	200mA	20	0mA	
Leakage current	<0.01mA	<0.	01mA	
Voltage drop	<1.5V	<1.		
Switching frequency	500HZ	500HZ	300HZ	
Response time	0.5ms	0.5ms	1ms	
Switching hysteresis	<15%(Sr)		5%(Sr)	
Constant magnetic field B	150mT)mT	
Alternating magnetic field B	150mT)mT	
Repeat accuracy	<1.0%(Sr)		0%(Sr)	
Protection level	IP67	IPe		
Working temperature	-25°C - +70°C		°C - +70 °C	
Temperature drift	<10%(Sr)		0%(Sr)	
Short circuit protection/reverse polarity protection	Yes 220mA	Ye	•	
Overload protection current)mA	
Sensing surface material Connection method	Oil-proof PUR/Teflon/Silicone 2m cable	PTFE PTFE eflon/Silicone 2m cable M12 Connector		
Product Model	On-proor POR/Tenon/Sincone zin cable	MIZ CO	nnector	
DC 3 wire 10-30V NPN NO	LD18-08NO-ZAA-3M-H	LD18-08NO-YAA-TA-H	LD18-16NO-YBA-TA-H	
DC 3 wire 10-30V NPN NO	LD18-08NC-ZAA-3M-H	LD18-08NC-YAA-TA-H	LD18-16NC-YBA-TA-H	
DC 3 wire 10-30V PNP NO	LD18-08PO-ZAA-3M-H	LD18-08PO-YAA-TA-H	LD18-16PO-YBA-TA-H	
DC 3 wire 10-30V PNP NC	LD18-08PC-ZAA-3M-H	LD18-08PC-YAA-TA-H	LD18-16PC-YBA-TA-H	
DC 4 wire 10-30V Convertible PNP (NO&NC)	LD18-08NS-ZAA-4M-H	LD18-08NS-YAA-TA-H	LD18-16NS-YBA-TA-H	
DC 4 wire 10-30V Convertible NPN (NO&NC)	LD18-08PS-ZAA-4M-H	LD18-08PS-YAA-TA-H	LD18-16PS-YBA-TA-H	
DC 2 wire 10-60V NO	LD18-08HO-ZAD-2M-H	LD18-08HO-YAD-TA-H	LD18-16HO-YBD-TA-H	
DC 2 wire 10-60V NC	LD18-08HC-ZAD-2M-H	LD18-08HC-YAD-TA-H	LD18-16HC-YBD-TA-H	
DC 3 wire 10-55V NPN NO				
DC 3 wire 10-55V NPN NC				
DC 3 wire 10-55V PNP NO				
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)				





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M12X1

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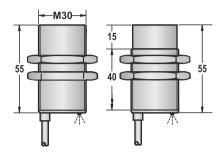
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M12X1

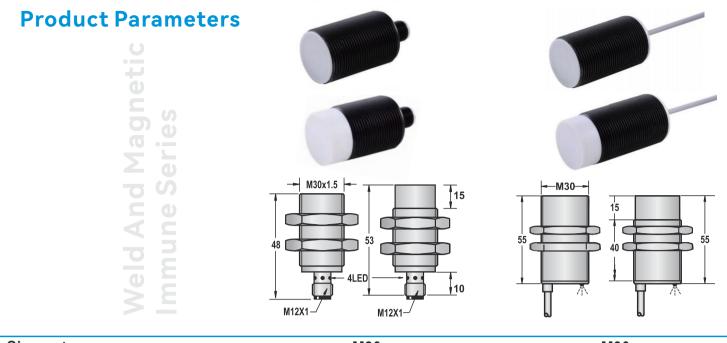




Size category	M18	M3	M30	
Shielded O Non-shielded	•		0	
Sn: mm	8mm	10mm	15 mm	
Shell material	Brass, Teflon coating	Brass, Teflon coating		
LED display		Druss, renon coaring		
Operating voltage	10-30VDC / 10-60VDC	10-30VDC /	10-60VDC	
Allowable pulsating voltage	<10%	<10		
No-load current	<10mA	<10		
Maximum load current	200mA	200		
Leakage current	<0.01mA		1mA	
Voltage drop	<1.5V	<1.5		
Switching frequency	500HZ	500HZ	300HZ	
Response time	0.5ms	0.5ms	1ms	
Switching hysteresis	<15%(Sr)		%(Sr)	
Constant magnetic field B	150mT	150		
Alternating magnetic field B	150mT	150		
Repeat accuracy	<1.0%(Sr)	<1.0%(Sr)		
Protection level	IP67	IP67		
Working temperature	-25°C - +70°C	-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	PTFE	PTFE		
Connection method	M12 Connector	Oil-proof PUR/Teflon/Silicone 2m cable		
Product Model				
DC 3 wire 10-30V NPN NO	LD18-08NO-YAA-TM-H	LD30-10NO-ZAA-3A-H	LD30-15NO-ZBA-	
DC 3 wire 10-30V NPN NC	LD18-08NC-YAA-TM-H	LD30-10NC-ZAA-3A-H	LD30-15NC-ZBA-	
DC 3 wire 10-30V PNP NO	LD18-08PO-YAA-TM-H	LD30-10PO-ZAA-3A-H	LD30-15PO-ZBA-	
DC 3 wire 10-30V PNP NC	LD18-08PC-YAA-TM-H	LD30-10PC-ZAA-3A-H	LD30-15PC-ZBA-	
DC 4 wire 10-30V Convertible PNP (NO&NC)	LD18-08NS-YAA-TM-H	LD30-10NS-ZAA-4A-H	LD30-15NS-ZBA-4	
DC 4 wire 10-30V Convertible NPN (NO&NC)	LD18-08PS-YAA-TM-H	LD30-10PS-ZAA-4A-H	LD30-15PS-ZBA-4	
DC 2 wire 10-60V NO	LD18-08HO-YAD-TM-H	LD30-10HO-ZAD-2A-H	LD30-15HO-ZBD-	
DC 2 wire 10-60V NC	LD18-08HC-YAD-TM-H	LD30-10HC-ZAD-2A-H	LD30-15HC-ZBD-	
DC 3 wire 10-55V NPN NO				
DC 3 wire 10-55V NPN NC				
DC 3 wire 10-55V PNP NO				
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)				

Product Parameters M30 -M30-15 ۵ ٢ 40 35 🤇 25 78 780 115 4LED M12x1 M12x1 Size category M30 M30 Shielded ○ Non-shielded 0 0 Sn: mm 10mm 15 mm 10mm 15 mm Brass, Teflon coating Brass, Teflon coating Shell material

onen material	,,		,		
● LED display 🛛 🔿 No LED display	(•	•		
Operating voltage	10-30VDC	/ 10-60VDC	10-30VDC / 10-60VDC		
Allowable pulsating voltage	<1	0%	<10%		
No-load current	<1	0mA	<10mA		
Maximum load current	20	00mA	200mA		
Leakage current	<0	.01mA	<0.01mA		
Voltage drop	<1	.5V	<1.5V		
Switching frequency	20	0HZ	200HZ		
Response time	1n	าร	1ms		
Switching hysteresis	<1	5%(Sr)	<15%(Sr)		
Constant magnetic field B	10	0mT	100mT		
Alternating magnetic field B	10	0mT	100mT		
Repeat accuracy	<1	.0%(Sr)	<1.0%(Sr)		
Protection level	IP	67	IP67	IP67	
Working temperature	-25	°C - +70 <i>°</i> C	-25°C - +70°C		
Temperature drift	<1	0%(Sr)	<10	<10%(Sr)	
Short circuit protection/reverse polarity protection	Yes		Yes		
Overload protection current	22	0mA	220mA		
Sensing surface material	PT	FE	PTFE		
Connection method	Oil-proof PUR/Teflo	on/Silicone 2m cable	M12 Connector		
Product Model					
DC 3 wire 10-30V NPN NO	LD30-10NO-ZAA-3M-H	LD30-15NO-ZBA-3M-H	LD30-10NO-YAA-TA-H	LD30-15NO-YBA-TA-H	
DC 3 wire 10-30V NPN NC	LD30-10NC-ZAA-3M-H	LD30-15NC-ZBA-3M-H	LD30-10NC-YAA-TA-H	LD30-15NC-YBA-TA-H	
DC 3 wire 10-30V PNP NO	LD30-10PO-ZAA-3M-H	LD30-15PO-ZBA-3M-H	LD30-10PO-YAA-TA-H	LD30-15PO-YBA-TA-H	
DC 3 wire 10-30V PNP NC	LD30-10PC-ZAA-3M-H	LD30-15PC-ZBA-3M-H	LD30-10PC-YAA-TA-H	LD30-15PC-YBA-TA-H	
DC 4 wire 10-30V Convertible PNP (NO&NC)	LD30-10NS-ZAA-4M-H	LD30-15NS-ZBA-4M-H	LD30-10NS-YAA-TA-H	LD30-15NS-YBA-TA-H	
DC 4 wire 10-30V Convertible NPN (NO&NC)	LD30-10PS-ZAA-4M-H	LD30-15PS-ZBA-4M-H	LD30-10PS-YAA-TA-H	LD30-15PS-YBA-TA-H	
DC 2 wire 10-60V NO	LD30-10HO-ZAD-2M-H	LD30-15HO-ZBD-2M-H	LD30-10HO-YAD-TA-H	LD30-15HO-YBD-TA-H	
DC 2 wire 10-60V NC	LD30-10HC-ZAD-2M-H	LD30-15HC-ZBD-2M-H	LD30-10HC-YAD-TA-H	LD30-15HC-YBD-TA-H	
DC 3 wire 10-55V NPN NO					
DC 3 wire 10-55V NPN NC					
DC 3 wire 10-55V PNP NO					
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)					



DC 3 wire 10-30V PNP NC DC 4 wire 10-30V Convertible PNP (NO&NC) LD 30-10PC-YAA-TM-H LD 30-15PC-YBA-TM-H LD 30-16NS-ZAA-4A-H LD 30-25NS-ZBA-4 DC 4 wire 10-30V Convertible NPN (NO&NC) LD 30-10PS-YAA-TM-H LD 30-15PS-YBA-TM-H LD 30-15PS-YBA-TM-H LD 30-16PS-ZAA-4A-H LD 30-25PS-ZBA-4 DC 2 wire 10-60V NC LD 30-10HO-YAD-TM-H LD 30-15HO-YBD-TM-H LD 30-16HO-ZAD-2A-H LD 30-25HO-ZBD-2 DC 2 wire 10-55V NPN NO DC 3 wire 10-55V NPN NC DC 3 wire 10-55V PNP NC DC 3 wire 5-36V NPN NC DC 3 wire 5-36V NPN NC DC 3 wire 5-36V PNP NC DC 4 wire 5-36V Convertible PNP (NO&NC)	Size category	M30		M30		
Shell material Brass, Teflon coating Brass, Teflon coating ● LED display	Shielded O Non-shielded	•	0	•	0	
LED display No LED display ● Operating voltage 1030VDC / 10-60VDC 1030VDC / 10-60VDC Allovable pulsiting voltage <10%	Sn: mm	10mm	15 mm	16mm	25 mm	
Operating voltage 10-30VDC / 10-60VDC 10-30VDC / 10-60VDC Allowable pulsating voltage <10%	Shell material	Brass, Tef	on coating	Brass, Teflon coating		
Operating voltage 10-30VDC / 10-60VDC 10-30VDC / 10-60VDC Allowable pulsating voltage <10%	LED display	(•		
Allovable pulsating voltage <10%		10-30VDC	/ 10-60VDC	10-30VDC / 10-60VDC		
Naximum load current 200 mA 200 mA 0.0 T mA Leakage current <0.0 T mA	, , ,	<1	0%	<10%		
Leakage current <0.01mA	No-load current	<1	0mA	<10mA		
Voltage drop <1.5V	Maximum load current	20	00mA	200mA		
Switching frequency 200HZ 200HZ Response time 1ms 1ms Response time 1ms 1ms Switching hystersis <15%(Sr)	Leakage current	<0	.01mA	<0.01mA		
Response time 1ms 1ms Switching hysteresis <15% (Sr)	Voltage drop	<1	.5V	<1.5V		
Switching hysteresis <15%(Sr)	Switching frequency	20	0HZ			
Constant magnetic field B 200mT 100mT Alternating magnetic field B 200mT 100mT Repeat accuracy <1.0%(Sr)	Response time	1n	າຣ			
Alternating magnetic field B 200mT 100mT Repeat accuracy <1.0%(Sr)	Switching hysteresis	<1	5%(Sr)	<15	%(Sr)	
Repeat accuracy <1.0%(Sr)	Constant magnetic field B	20	0mT	100r		
Protection levelIP67IP67Working temperature.25°C - +70°C.25°C - +70°CTemperature drift.25°C - +70°C.25°C - +70°CTemperature drift.410%(Sr).410%(Sr)Short circuit protection/reverse polarity protectionYesYesOverload protection current.220mA.220mASensing surface materialPTFEPTFEConnectorOil-proof PUR/Teffon/Silicone 2m cableProduct Model	Alternating magnetic field B	20	0mT	100mT		
Working temperature.25 °C - +70 °CTemperature drift<10%(Sr)	Repeat accuracy	<1	.0%(Sr)	<1.0%(Sr)		
Temperature drift<10%(Sr)<10%(Sr)Short circuit protection /reverse polarity protectionYesYesOverload protection current220mA220mASensing surface materialPTFEPTFEConnectorOil-proof PUR/Teflon/Silicone 2m cableProduct ModelM12 ConnectorOil-proof PUR/Teflon/Silicone 2m cableDC 3 wire 10-30V NPN NOLD30-10NO-YAA-TM-HLD30-15NO-YBA-TM-HLD30-16NO-ZAA-3A-HLD30-25NO-ZBA-3DC 3 wire 10-30V NPN NCLD30-10PO-YAA-TM-HLD30-15NC-YBA-TM-HLD30-16NC-ZAA-3A-HLD30-25NC-ZBA-3DC 3 wire 10-30V VPN NCLD30-10PO-YAA-TM-HLD30-15PO-YBA-TM-HLD30-16PO-ZAA-3A-HLD30-25PC-ZBA-3DC 3 wire 10-30V Convertible PNP (NO&NC)LD30-10PC-YAA-TM-HLD30-15PC-YBA-TM-HLD30-16PC-ZAA-3A-HLD30-25PC-ZBA-3DC 4 wire 10-30V Convertible NPN (NO&NC)LD30-10NS-YAA-TM-HLD30-15PC-YBA-TM-HLD30-16PC-ZAA-3A-HLD30-25PC-ZBA-3DC 4 wire 10-60V NCLD30-10HO-YAO-TM-HLD30-15HO-YBD-TM-HLD30-16HC-ZAD-2A-HLD30-25PC-ZBA-3DC 2 wire 10-60V NCLD30-10HC-YAD-TM-HLD30-15HO-YBD-TM-HLD30-16HC-ZAD-2A-HLD30-25PC-ZBD-3DC 3 wire 10-55V NPN NCDC 2 wire 10-65V NPN NCDC 3 wire 10-55V NPN NCDC 3 wire 10-55V NPN NCDC 3 wire 10-55V NPN NCDC 3 wire 5-36V NPN NCDC 3 w				IP67		
Short circuit protection/reverse polarity protection Yes Yes Overload protection current 220mA 220mA Sensing surface material PTFE PTFE Connection method M12 Connector Oil-proof PUR/Teflon/Silicone 2m cable Product Model DC 3 wire 10-30V NPN NO LD30-10NO-YAA-TM-H LD30-15NO-YBA-TM-H LD30-16NO-ZAA-3A-H LD30-25NO-ZBA-3 DC 3 wire 10-30V NPN NC LD30-10PO-YAA-TM-H LD30-15NC-YBA-TM-H LD30-16NC-ZAA-3A-H LD30-25NO-ZBA-3 DC 3 wire 10-30V NPN NC LD30-10PO-YAA-TM-H LD30-15PO-YBA-TM-H LD30-16PO-ZAA-3A-H LD30-25PO-ZBA-3 DC 3 wire 10-30V VPN PN C LD30-10PO-YAA-TM-H LD30-15PC-YBA-TM-H LD30-16PO-ZAA-3A-H LD30-25PC-ZBA-3 DC 3 wire 10-30V VPN PN C LD30-10PC-YAA-TM-H LD30-15PC-YBA-TM-H LD30-16PC-ZAA-3A-H LD30-25PC-ZBA-3 DC 4 wire 10-30V Convertible PNP (NO&NC) LD30-10PC-YAA-TM-H LD30-15PS-YBA-TM-H LD30-16PC-ZAA-4A-H LD30-25PC-ZBA-3 DC 2 wire 10-60V NO LD30-10PC-YAA-TM-H LD30-15PS-YBA-TM-H LD30-16PC-ZAA-4A-H LD30-25PC-ZBA-3 DC 2 wire 10-60V NC LD30-10PC-YAA-TM-H LD30-15PS-YBA-TM-H LD30-16PC-ZAA-4A-H LD30-25PC-ZBA-3	•					
Overload protection current 220mA 220mA Sensing surface material PTFE PTFE Connection method M12 Connector Oil-proof PUR/Teffon/Silicone 2m cable Product Model DC 3 wire 10-30V NPN NO LD30-10NO-YAA-TM-H LD30-15NO-YBA-TM-H LD30-16NO-ZAA-3A-H LD30-25NO-ZBA-3 DC 3 wire 10-30V NPN NO LD30-10NO-YAA-TM-H LD30-15NO-YBA-TM-H LD30-16NO-ZAA-3A-H LD30-25NO-ZBA-3 DC 3 wire 10-30V NPN NC LD30-10PO-YAA-TM-H LD30-15PO-YBA-TM-H LD30-16PO-ZAA-3A-H LD30-25PO-ZBA-3 DC 3 wire 10-30V PN PO LD30-10PO-YAA-TM-H LD30-15PC-YBA-TM-H LD30-16PO-ZAA-3A-H LD30-25PO-ZBA-3 DC 4 wire 10-30V Convertible PNP (NO&NC) LD30-10PC-YAA-TM-H LD30-15PC-YBA-TM-H LD30-16PC-ZAA-3A-H LD30-25PC-ZBA-3 DC 4 wire 10-30V Convertible PNP (NO&NC) LD30-10PC-YAA-TM-H LD30-15PC-YBA-TM-H LD30-16PC-ZAA-3A-H LD30-25PC-ZBA-3 DC 4 wire 10-30V Convertible PNP (NO&NC) LD30-10PC-YAA-TM-H LD30-15PC-YBA-TM-H LD30-16PC-ZAA-4A-H LD30-25PC-ZBA-3 DC 4 wire 10-60V NO LD30-10PC-YAA-TM-H LD30-15PC-YBA-TM-H LD30-16PC-ZAA-4A-H LD30-25PC-ZBA-3		<1	0%(Sr)			
Sensing surface material PTFE OII-proof PUR/Teflon/Silicone 2m cable Product Model 0iI-proof PUR/Teflon/Silicone 2m cable DC 3 wire 10-30V NPN NO LD30-10NO-YAA-TM-H LD30-15NO-YBA-TM-H LD30-16NO-ZAA-3A-H LD30-25NO-ZBA-3 DC 3 wire 10-30V NPN NC LD30-10NO-YAA-TM-H LD30-15NC-YBA-TM-H LD30-16NO-ZAA-3A-H LD30-25NO-ZBA-3 DC 3 wire 10-30V NPN NC LD30-10PO-YAA-TM-H LD30-15PO-YBA-TM-H LD30-16PO-ZAA-3A-H LD30-25PO-ZBA-3 DC 3 wire 10-30V PNP NC LD30-10PC-YAA-TM-H LD30-15PC-YBA-TM-H LD30-16PC-ZAA-3A-H LD30-25PC-ZBA-3 DC 4 wire 10-30V Convertible PNP (NO&NC) LD30-10NS-YAA-TM-H LD30-15PS-YBA-TM-H LD30-16NS-ZAA-4A-H LD30-25PC-ZBA-3 DC 4 wire 10-30V Convertible PNP (NO&NC) LD30-10PS-YAA-TM-H LD30-15PS-YBA-TM-H LD30-16NS-ZAA-4A-H LD30-25PS-ZBA-4 DC 2 wire 10-60V NO LD30-10HO-YAD-TM-H LD30-15PS-YBA-TM-H LD30-16HO-ZAD-2A-H LD30-25PS-ZBA-2 DC 2 wire 10-60V NC LD30-10HO-YAD-TM-H LD30-15HO-YBD-TM-H LD30-16HO-ZAD-2A-H LD30-25HO-ZBD-2 DC 3 wire 10-55V NPN NO LD30-15HO-YBD-TM-H		Yes				
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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 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 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 3 wire 5-36V PNP NO DC 3 wire 5-36V PNP NC DC 4 wire 5-36V Convertible PNP (NO&NC)						
DC 3 wire 5-36V PNP NC DC 4 wire 5-36V Convertible PNP (NO&NC)						
DC 4 wire 5-36V Convertible PNP (NO&NC)						
	DC 4 wire 5-36V Convertible PNP (NO&NC)					

Product Parameters M30 -M30-15 35 🗲 78 78 15 4I FD M12x1 M12x1 Size category M30 M30 Shielded ○ Non-shielded 0 Sn: mm 25 mm 16mm 16mm Brass, Teflon coating Brass, Teflon coating Shell material LED display ○ No LED display 10-30VDC / 10-60VDC 10-30VDC / 10-60VDC **Operating voltage** <10% <10% Allowable pulsating voltage <10mA <10mA No-load current 200mA Maximum load current 200mA <0.01mA <0.01mA Leakage current Voltage drop <1.5V <1.5V 800HZ 500HZ Switching frequency 200HZ **Response time** 1ms 0.2ms 0.5ms <15%(Sr) <15%(Sr) Switching hysteresis Constant magnetic field B 100mT 150mT Alternating magnetic field B 100mT 150mT Repeat accuracy <1.0%(Sr) <1.0%(Sr) Protection level IP67 IP67 -25°C - +70°C Working 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 PTFE PTFF **Connection method** Oil-proof PUR/Teflon/Silicone 2m cable M12 Connector Product Model LD30-25NO-YBA-TA-H LD30-16NO-ZAA-3M-H LD30-16NO-YAA-TA-H DC 3 wire 10-30V NPN NO LD30-16NC-ZAA-3M-H LD30-16NC-YAA-TA-H LD30-25NC-YBA-TA-H DC 3 wire 10-30V NPN NC DC 3 wire 10-30V PNP NO LD30-16PO-ZAA-3M-H LD30-16PO-YAA-TA-H LD30-25PO-YBA-TA-H DC 3 wire 10-30V PNP NC LD30-16PC-ZAA-3M-H LD30-16PC-YAA-TA-H LD30-25PC-YBA-TA-H DC 4 wire 10-30V Convertible PNP (NO&NC) LD30-16NS-ZAA-4M-H LD30-16NS-YAA-TA-H LD30-25NS-YBA-TA-H LD30-16PS-ZAA-4M-H LD30-16PS-YAA-TA-H LD30-25PS-YBA-TA-H DC 4 wire 10-30V Convertible NPN (NO&NC) LD30-16HO-ZAD-2M-H LD30-16HO-YAD-TA-H LD30-25HO-YBD-TA-H DC 2 wire 10-60V NO DC 2 wire 10-60V NC LD30-16HC-ZAD-2M-H LD30-16HC-YAD-TA-H LD30-25HC-YBD-TA-H DC 3 wire 10-55V NPN NO DC 3 wire 10-55V NPN NC DC 3 wire 10-55V PNP NO 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)

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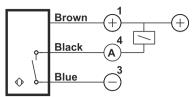


M12X1

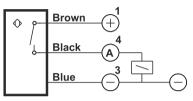
Size category	M30	
Shielded O Non-shielded	•	
Sn: mm	16mm	
Shell material	Brass, Teflon coating	
LED display		
Operating voltage	10-30VDC / 10-60VDC	
Allowable pulsating voltage	<10%	
No-load current	<10mA	
Maximum load current	200mA	
Leakage current	<0.01mA	
Voltage drop	<1.5V	
Switching frequency	200HZ	
Response time	1ms	
Switching hysteresis	<15%(Sr)	
Constant magnetic field B	150mT	
Alternating magnetic field B	150mT	
Repeat accuracy	<1.0%(Sr)	
Protection level	IP67	
Working temperature	-25°C - +70°C	
Temperature drift	<10%(Sr)	
Short circuit protection/reverse polarity protection	Yes	
Overload protection current	220mA	
Sensing surface material	PTFE	
Connection method	Oil-proof PUR/Teflon/Silicone 2m cable	
Product Model		
DC 3 wire 10-30V NPN NO	LD30-16NO-YAA-TM-H	
DC 3 wire 10-30V NPN NC	LD30-16NC-YAA-TM-H	
DC 3 wire 10-30V PNP NO	LD30-16PO-YAA-TM-H	
DC 3 wire 10-30V PNP NC	LD30-16PC-YAA-TM-H	
DC 4 wire 10-30V Convertible PNP (NO&NC)	LD30-16NS-YAA-TM-H	
DC 4 wire 10-30V Convertible NPN (NO&NC)	LD30-16PS-YAA-TM-H	
DC 2 wire 10-60V NO	LD30-16HO-YAD-TM-H	
DC 2 wire 10-60V NC	LD30-16HC-YAD-TM-H	
DC 3 wire 10-55V NPN NO		
DC 3 wire 10-55V NPN NC		
DC 3 wire 10-55V PNP NO		
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 3 wire 5-36V PNP NC DC 4 wire 5-36V Convertible PNP (NO&NC)		
DC 4 wire 5-36V Convertible PNP (NO&NC) DC 4 wire 5-36V Convertible NPN (NO&NC)		

Wiring Diagram

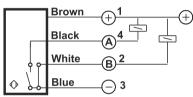
DC NPN NO



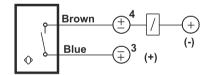
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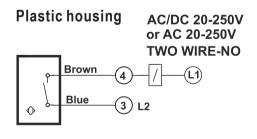


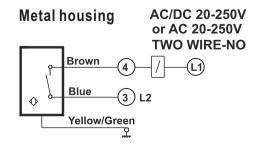
DC NPN NO&NC



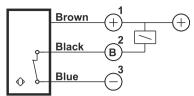
DC 2 wire NO



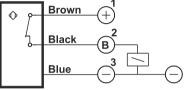




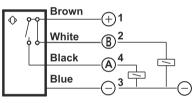




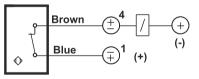


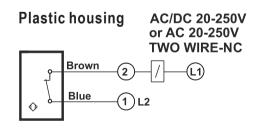


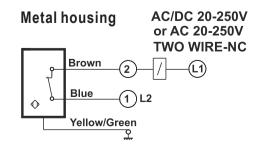
DC PNP NO&NC



DC 2 wire NC

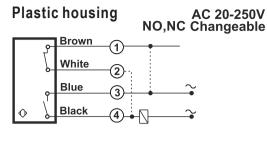






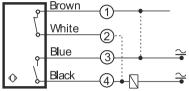
DONGGUAN DADI ELECTRONIC TECHNOLOGY CO., LTD Website: www.dadisick.com Email: sale@dadisick.com

Wiring Diagram

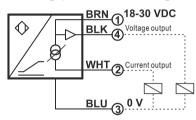


Plastic housing

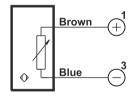




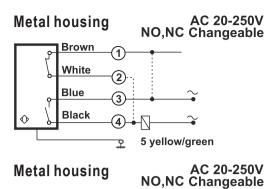
Analog (current + voltage output type)

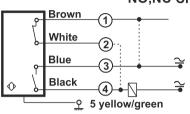


Riot-proof DC 6-12V

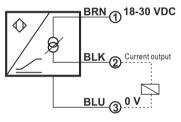


Connector Diagram

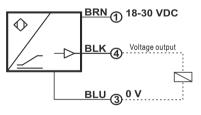


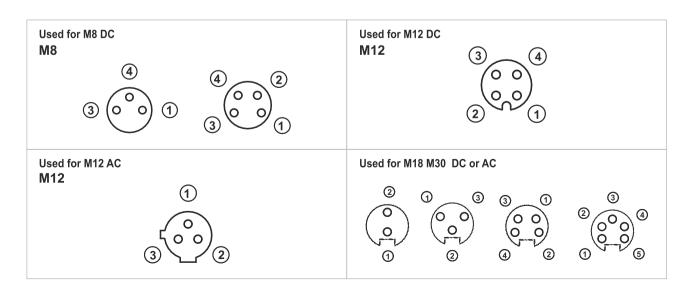


Analog (current output type)



Analog (voltage output type)





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