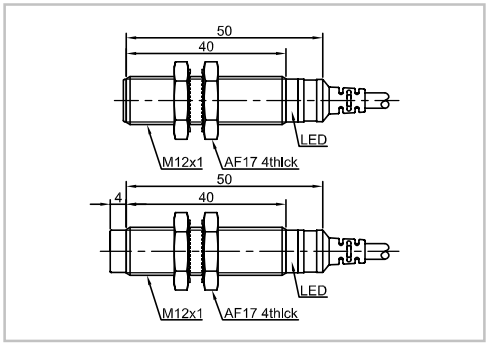
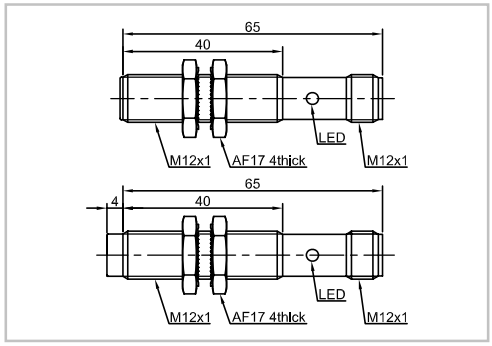
Item Code		LR12		LR12	
Mounting		● Flushed	◑ Non-flushed	● Flushed	◑ Non-flushed
Sensing distance		2mm	4mm	2mm	4mm
Output	NPN NO	LR12BF02DNO	LR12BN04DNO	LR12BF02DNO-E2	LR12BN04DNO-E2
	NPN NC	LR12BF02DNC	LR12BN04DNC	LR12BF02DNC-E2	LR12BN04DNC-E2
	NPN NO+NC	LR12BF02DNR	LR12BN04DNR	LR12BF02DNR-E2	LR12BN04DNR-E2
Output	PNP NO	LR12BF02DPO	LR12BN04DPO	LR12BF02DPO-E2	LR12BN04DPO-E2
	PNP NC	LR12BF02DPC	LR12BN04DPC	LR12BF02DPC-E2	LR12BN04DPC-E2
	PNP NO+NC	LR12BF02DPR	LR12BN04DPR	LR12BF02DPR-E2	LR12BN04DPR-E2
Technical Parameter					
Supply voltage		10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC
Switch point drift		＜±10% Sr	＜±10% Sr	＜±10% Sr	＜±10% Sr
Load current		＜200mA	＜200mA	＜200mA	＜200mA
Voltage drop		＜2.5V	＜2.5V	＜2.5V	＜2.5V
Consumption current		＜10mA	＜10mA	＜10mA	＜10mA
Hysteresis		1···20%	1···20%	1···20%	1···20%
Repeat accuracy		＜3%	＜3%	＜3%	＜3%
Frequency		1500Hz	1000Hz	1500Hz	1000Hz
Output indicator		Yellow LED	Yellow LED	Yellow LED	Yellow LED
Polarity protection		yes	yes	yes	yes
Surge protection		yes	yes	yes	yes
Short-circuit protection		yes	yes	yes	yes
Ambient temperature		-25...+70℃	-25...+70℃	-25...+70℃	-25...+70℃
Ambient moisture		35...95%	35...95%	35...95%	35...95%
Protection degree		IP67	IP67	IP67	IP67
Housing material		Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy
Connection		2m PVC Cable	2m PVC Cable	M12 Connector	M12 Connector
Certification		CE UL	CE UL	CE UL	CE UL

* Cable material and length can be customized



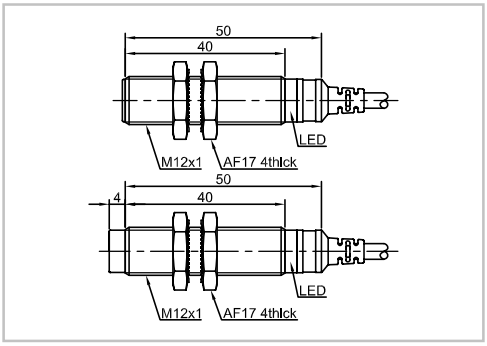


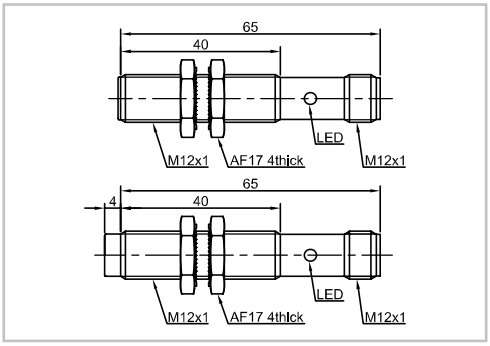
10-60VDC 3 Wires

Item Code		LR12		LR12	
Mounting		● Flushed	◑ Non-flushed	● Flushed	◑ Non-flushed
Sensing distance		2mm	4mm	2mm	4mm
Output	NPN NO	LR12BF02ENO	LR12BN04ENO	LR12BF02ENO-E2	LR12BN04ENO-E2
	NPN NC	LR12BF02ENC	LR12BN04ENC	LR12BF02ENC-E2	LR12BN04ENC-E2
Output	PNP NO	LR12BF02EPO	LR12BN04EPO	LR12BF02EPO-E2	LR12BN04EPO-E2
	PNP NC	LR12BF02EPC	LR12BN04EPC	LR12BF02EPC-E2	LR12BN04EPC-E2

Technical Parameter				
Supply voltage	10...60 VDC	10...60 VDC	10...60 VDC	10...60 VDC
Switch point drift	＜±10% Sr	＜±10% Sr	＜±10% Sr	＜±10% Sr
Load current	＜200mA	＜200mA	＜200mA	＜200mA
Voltage drop	＜2.5V	＜2.5V	＜2.5V	＜2.5V
Consumption current	＜10mA	＜10mA	＜10mA	＜10mA
Hysteresis	1···20%	1···20%	1···20%	1···20%
Repeat accuracy	＜3%	＜3%	＜3%	＜3%
Frequency	1500Hz	1000Hz	1500Hz	1000Hz
Output indicator	Yellow LED	Yellow LED	Yellow LED	Yellow LED
Polarity protection	yes	yes	yes	yes
Surge protection	yes	yes	yes	yes
Short-circuit protection	yes	yes	yes	yes
Ambient temperature	-25...+70℃	-25...+70℃	-25...+70℃	-25...+70℃
Ambient moisture	35...95%	35...95%	35...95%	35...95%
Protection degree	IP67	IP67	IP67	IP67
Housing material	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy
Connection	2m PVC Cable	2m PVC Cable	M12 Connector	M12 Connector
Certification	CE UL	CE UL	CE UL	CE UL

* Cable material and length can be customized



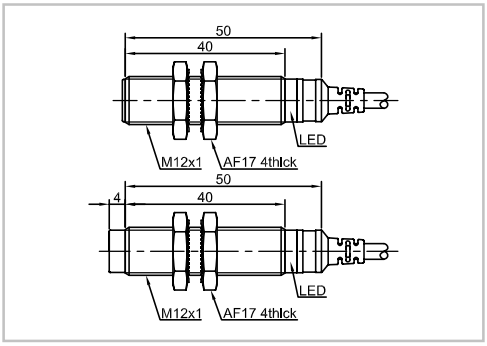


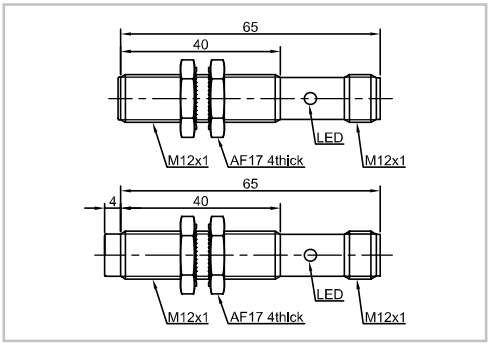
10-30VDC 2 Wires

Item Code		LR12		LR12	
Mounting		● Flushed	◑ Non-flushed	● Flushed	◑ Non-flushed
Sensing distance		2 mm	4mm	2 mm	4mm
Output	DC 2 Wires NO	LR12BF02DLO	LR12BN04DLO	LR12BF02DLO-E2	LR12BN04DLO-E2
	DC 2 Wires NC	LR12BF02DLC	LR12BN04DLC	LR12BF02DLC-E2	LR12BN04DLC-E2

Technical Parameter				
Supply voltage	10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC
Switch point drift	＜±10% Sr	＜±10% Sr	＜±10% Sr	＜±10% Sr
Load current	＜100mA	＜100mA	＜100mA	＜100mA
Voltage drop	＜6V	＜6V	＜6V	＜6V
Leakage current	＜1mA	＜1mA	＜1mA	＜1mA
Hysteresis	1···20%	1···20%	1···20%	1···20%
Repeat accuracy	＜3%	＜3%	＜3%	＜3%
Frequency	800Hz	500Hz	800Hz	500Hz
Output indicator	Yellow LED	Yellow LED	Yellow LED	Yellow LED
Polarity protection	yes	yes	yes	yes
Surge protection	yes	yes	yes	yes
Short-circuit protection	...	...	...	...
Ambient temperature	-25...+70℃	-25...+70℃	-25...+70℃	-25...+70℃
Ambient moisture	35...95%	35...95%	35...95%	35...95%
Protection degree	IP67	IP67	IP67	IP67
Housing material	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy
Connection	2m PVC Cable	2m PVC Cable	M12 Connector	M12 Connector
Certification	CE UL	CE UL	CE UL	CE UL

* Cable material and length can be customized

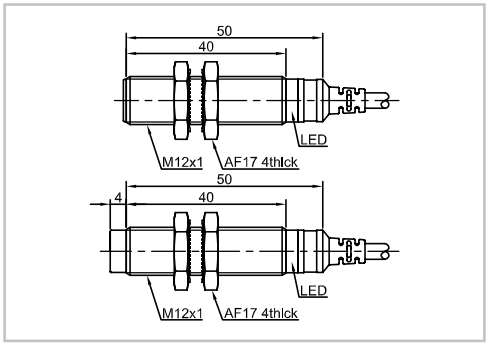


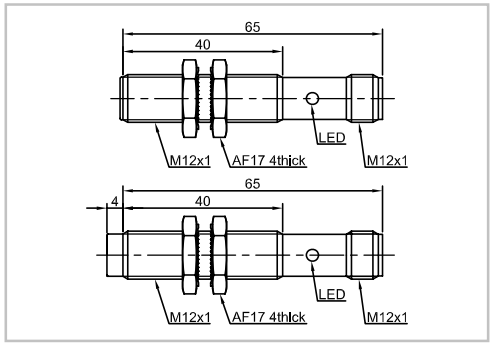


Item Code		LR12		LR12	
Mounting		● Flushed	◑ Non-flushed	● Flushed	◑ Non-flushed
Sensing distance		2 mm	4mm	2 mm	4mm
Output	DC 2 Wires NO	LR12BF02ELO	LR12BN04ELO	LR12BF02ELO-E2	LR12BN04ELO-E2
	DC 2 Wires NC	LR12BF02ELC	LR12BN04ELC	LR12BF02ELC-E2	LR12BN04ELC-E2

Technical Parameter				
Supply voltage	10...60 VDC	10...60 VDC	10...60 VDC	10...60 VDC
Switch point drift	＜±10% Sr	＜±10% Sr	＜±10% Sr	＜±10% Sr
Load current	＜100mA	＜100mA	＜100mA	＜100mA
Voltage drop	＜6V	＜6V	＜6V	＜6V
Leakage current	＜1mA	＜1mA	＜1mA	＜1mA
Hysteresis	1…20%	1…20%	1…20%	1…20%
Repeat accuracy	＜3%	＜3%	＜3%	＜3%
Frequency	800Hz	500Hz	800Hz	500Hz
Output indicator	Yellow LED	Yellow LED	Yellow LED	Yellow LED
Polarity protection	yes	yes	yes	yes
Surge protection	yes	yes	yes	yes
Short-circuit protection	...	...	...	...
Ambient temperature	-25...+70℃	-25...+70℃	-25...+70℃	-25...+70℃
Ambient moisture	35...95%	35...95%	35...95%	35...95%
Protection degree	IP67	IP67	IP67	IP67
Housing material	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy
Connection	2m PVC Cable	2m PVC Cable	M12 Connector	M12 Connector
Certification	CE UL	CE UL	CE UL	CE UL

* Cable material and length can be customized



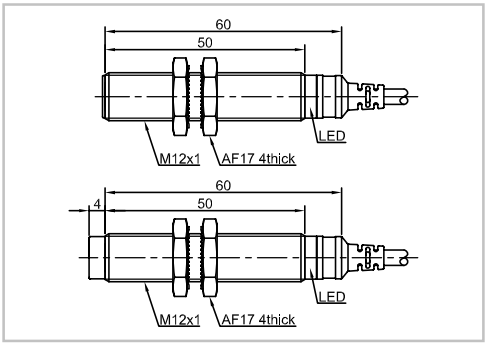


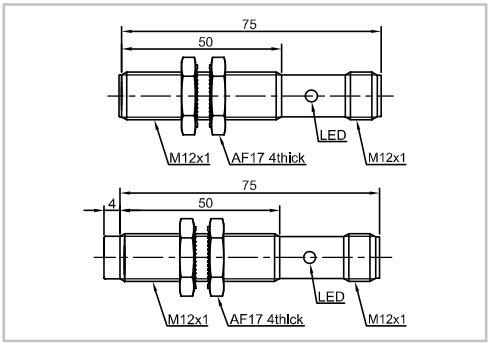
20-250VAC 2 Wires

Item Code		LR12		LR12	
Mounting		● Flushed	◑ Non-flushed	● Flushed	◑ Non-flushed
Sensing distance		2 mm	4mm	2 mm	4mm
Output	AC 2 Wires NO	LR12CF02ATO	LR12CN04ATO	LR12CF02ATO-E2	LR12CN04ATO-E2
	AC 2 Wires NC	LR12CF02ATC	LR12CN04ATC	LR12CF02ATC-E2	LR12CN04ATC-E2

Technical Parameter				
Supply voltage	20...250 VAC	20...250 VAC	20...250 VAC	20...250 VAC
Switch point drift	＜±10% Sr	＜±10% Sr	＜±10% Sr	＜±10% Sr
Load current	＜200mA	＜200mA	＜200mA	＜200mA
Voltage drop	＜10V	＜10V	＜10V	＜10V
Leakage current	＜3mA	＜3mA	＜3mA	＜3mA
Hysteresis	1···20%	1···20%	1···20%	1···20%
Repeat accuracy	＜3%	＜3%	＜3%	＜3%
Frequency	20Hz	20Hz	20Hz	20Hz
Output indicator	Yellow LED	Yellow LED	Yellow LED	Yellow LED
Polarity protection	...	...	...	...
Surge protection	yes	yes	yes	yes
Short-circuit protection	...	...	...	...
Ambient temperature	-25...+70℃	-25...+70℃	-25...+70℃	-25...+70℃
Ambient moisture	35...95%	35...95%	35...95%	35...95%
Protection degree	IP67	IP67	IP67	IP67
Housing material	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy
Connection	2m PVC Cable	2m PVC Cable	M12 Connector	M12 Connector
Certification	CE UL EAC	CE UL EAC	CE UL EAC	CE UL EAC

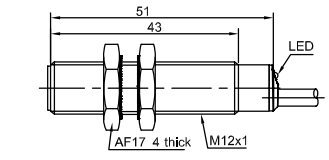
* Cable material and length can be customized

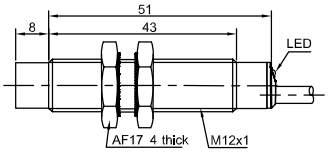


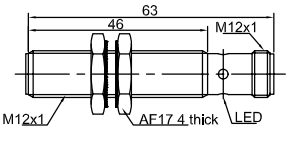


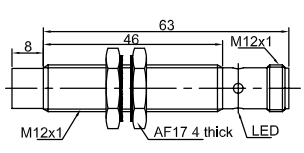
Item Code		LR12X		LR12X	
Mounting		● Flushed	◑ Non-flushed	● Flushed	◑ Non-flushed
Sensing distance		4mm	8mm	4mm	8mm
Output	NPN NO	LR12XBF04DNOY	LR12XBN08DNOY	LR12XBF04DNOY-E2	LR12XBN08DNOY-E2
	NPN NC	LR12XBF04DNCY	LR12XBN08DNCY	LR12XBF04DNCY-E2	LR12XBN08DNCY-E2
	NPN NO+NC	LR12XBF04DNRY	LR12XBN08DNRY	LR12XBF04DNRY-E2	LR12XBN08DNRY-E2
Output	PNP NO	LR12XBF04DPOY	LR12XBN08DPOY	LR12XBF04DPOY-E2	LR12XBN08DPOY-E2
	PNP NC	LR12XBF04DPCY	LR12XBN08DPCY	LR12XBF04DPCY-E2	LR12XBN08DPCY-E2
	PNP NO+NC	LR12XBF04DPRY	LR12XBN08DPRY	LR12XBF04DPRY-E2	LR12XBN08DPRY-E2
Technical Parameter					
Supply voltage		10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC
Switch point drift		＜±10% Sr	＜±10% Sr	＜±10% Sr	＜±10% Sr
Load current		＜200mA	＜200mA	＜200mA	＜200mA
Voltage drop		＜2.5V	＜2.5V	＜2.5V	＜2.5V
Consumption current		＜10mA	＜10mA	＜10mA	＜10mA
Hysteresis		1···20%	1···20%	1···20%	1···20%
Repeat accuracy		＜3%	＜3%	＜3%	＜3%
Frequency		800Hz	500Hz	800Hz	500Hz
Output indicator		Yellow LED	Yellow LED	Yellow LED	Yellow LED
Polarity protection		yes	yes	yes	yes
Surge protection		yes	yes	yes	yes
Short-circuit protection		yes	yes	yes	yes
Ambient temperature		-25...+70℃	-25...+70℃	-25...+70℃	-25...+70℃
Ambient moisture		35...95%	35...95%	35...95%	35...95%
Protection degree		IP67	IP67	IP67	IP67
Housing material		Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy
Connection		2m PVC Cable	2m PVC Cable	M12 Connector	M12 Connector
Certification		CE UL	CE UL	CE UL	CE UL

* Cable material and length can be customized





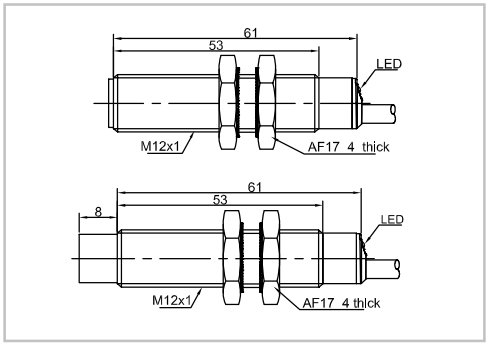


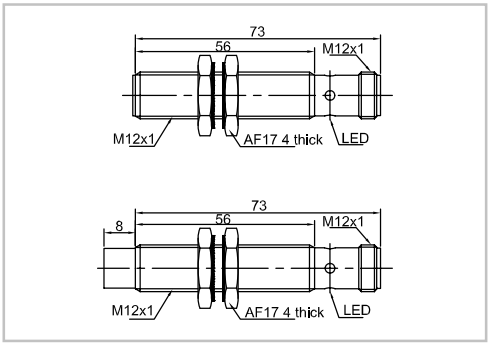


Item Code		LR12X		LR12X	
Mounting		● Flushed	◑ Non-flushed	● Flushed	◑ Non-flushed
Sensing distance		6mm	10mm	6mm	10mm
Output	NPN NO	LR12XCF06DNOY	LR12XCN10DNOY	LR12XCF06DNOY-E2	LR12XCN10DNOY-E2
	NPN NC	LR12XCF06DNCY	LR12XCN10DNCY	LR12XCF06DNCY-E2	LR12XCN10DNCY-E2
Output	PNP NO	LR12XCF06DPOY	LR12XCN10DPOY	LR12XCF06DPOY-E2	LR12XCN10DPOY-E2
	PNP NC	LR12XCF06DPCY	LR12XCN10DPCY	LR12XCF06DPCY-E2	LR12XCN10DPCY-E2

Technical Parameter				
Supply voltage	10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC
Switch point drift	＜±10% Sr	＜±10% Sr	＜±10% Sr	＜±10% Sr
Load current	＜200mA	＜200mA	＜200mA	＜200mA
Voltage drop	＜2.5V	＜2.5V	＜2.5V	＜2.5V
Consumption current	＜10mA	＜10mA	＜10mA	＜10mA
Hysteresis	1…20%	1…20%	1…20%	1…20%
Repeat accuracy	＜3%	＜3%	＜3%	＜3%
Frequency	500Hz	300Hz	500Hz	300Hz
Output indicator	Yellow LED	Yellow LED	Yellow LED	Yellow LED
Polarity protection	yes	yes	yes	yes
Surge protection	yes	yes	yes	yes
Short-circuit protection	yes	yes	yes	yes
Ambient temperature	-25...+70℃	-25...+70℃	-25...+70℃	-25...+70℃
Ambient moisture	35...95%	35...95%	35...95%	35...95%
Protection degree	IP67	IP67	IP67	IP67
Housing material	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy
Connection	2m PVC Cable	2m PVC Cable	M12 Connector	M12 Connector
Certification	CE UL	CE UL	CE UL	CE UL

* Cable material and length can be customized

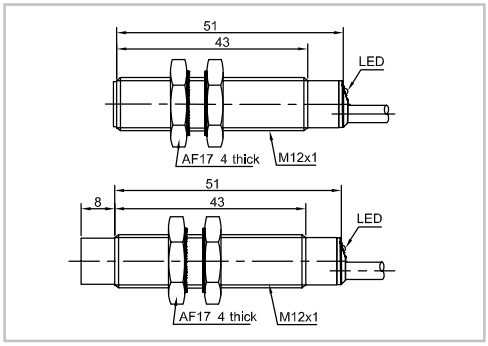


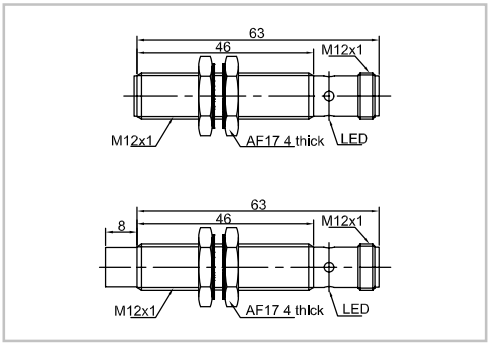


Item Code		LR12X		LR12X	
Mounting		● Flushed	◑ Non-flushed	● Flushed	◑ Non-flushed
Sensing distance		4mm	8mm	4mm	8mm
Output	DC 2 Wires NO	LR12XBF04DLOY	LR12XBN08DLOY	LR12XBF04DLOY-E2	LR12XBN08DLOY-E2
	DC 2 Wires NC	LR12XBF04DLCY	LR12XBN08DLCY	LR12XBF04DLCY-E2	LR12XBN08DLCY-E2

Technical Parameter				
Supply voltage	10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC
Switch point drift	＜±10% Sr	＜±10% Sr	＜±10% Sr	＜±10% Sr
Load current	＜100mA	＜100mA	＜100mA	＜100mA
Voltage drop	＜6V	＜6V	＜6V	＜6V
Leakage current	＜1mA	＜1mA	＜1mA	＜1mA
Hysteresis	1…20%	1…20%	1…20%	1…20%
Repeat accuracy	＜3%	＜3%	＜3%	＜3%
Frequency	800Hz	500Hz	800Hz	500Hz
Output indicator	Yellow LED	Yellow LED	Yellow LED	Yellow LED
Polarity protection	yes	yes	yes	yes
Surge protection	yes	yes	yes	yes
Short-circuit protection	...	...	...	...
Ambient temperature	-25...+70℃	-25...+70℃	-25...+70℃	-25...+70℃
Ambient moisture	35...95%	35...95%	35...95%	35...95%
Protection degree	IP67	IP67	IP67	IP67
Housing material	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy
Connection	2m PVC Cable	2m PVC Cable	M12 Connector	M12 Connector
Certification	CE UL	CE UL	CE UL	CE UL

* Cable material and length can be customized

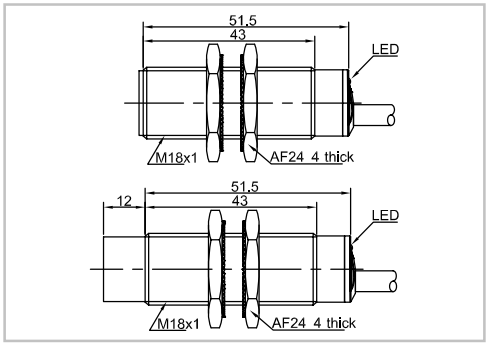


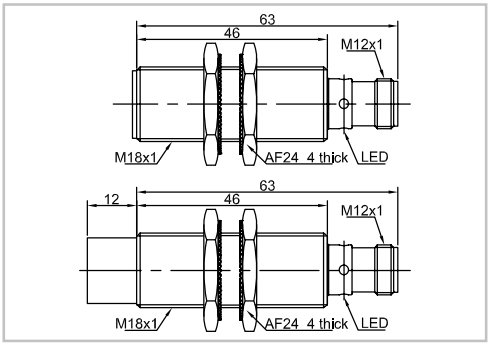


Item Code		LR18X		LR18X	
Mounting		● Flushed	◑ Non-flushed	● Flushed	◑ Non-flushed
Sensing distance		8mm	12mm	8mm	12mm
Output	DC 2 Wires NO	LR18XBF08DLOY	LR18XBN12DLOY	LR18XBF08DLOY-E2	LR18XBN12DLOY-E2
	DC 2 Wires NC	LR18XBF08DLCY	LR18XBN12DLCY	LR18XBF08DLCY-E2	LR18XBN12DLCY-E2

Technical Parameter				
Supply voltage	10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC
Switch point drift	＜±10% Sr	＜±10% Sr	＜±10% Sr	＜±10% Sr
Load current	＜100mA	＜100mA	＜100mA	＜100mA
Voltage drop	＜6V	＜6V	＜6V	＜6V
Leakage current	＜1mA	＜1mA	＜1mA	＜1mA
Hysteresis	1···20%	1···20%	1···20%	1···20%
Repeat accuracy	＜3%	＜3%	＜3%	＜3%
Frequency	400Hz	200Hz	400Hz	200Hz
Output indicator	Yellow LED	Yellow LED	Yellow LED	Yellow LED
Polarity protection	yes	yes	yes	yes
Surge protection	yes	yes	yes	yes
Short-circuit protection	...	...	...	...
Ambient temperature	-25...+70℃	-25...+70℃	-25...+70℃	-25...+70℃
Ambient moisture	35...95%	35...95%	35...95%	35...95%
Protection degree	IP67	IP67	IP67	IP67
Housing material	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy
Connection	2m PVC Cable	2m PVC Cable	M12 Connector	M12 Connector
Certification	CE UL	CE UL	CE UL	CE UL

* Cable material and length can be customized



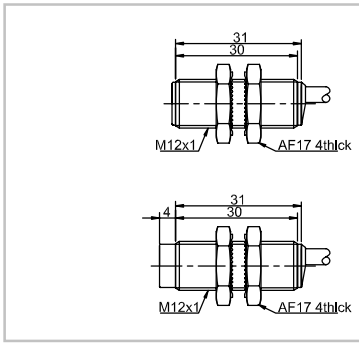


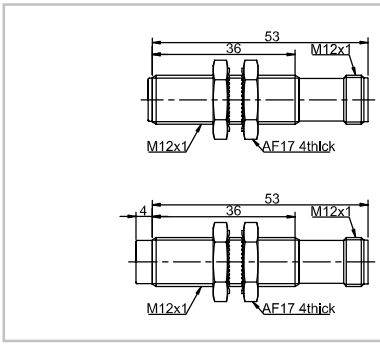
8.2VDC NAMUR

Item Code		LR12		LR12	
Mounting		● Flushed	◑ Non-flushed	● Flushed	◑ Non-flushed
Sensing distance		2mm	4mm	2mm	4mm
Output	NAMUR	LR12AF02FLCN	LR12AN04FLCN	LR12AF02FLCN-E2	LR12AN04FLCN-E2

Technical Parameter					
Supply voltage		8.2 VDC	8.2 VDC	8.2 VDC	8.2 VDC
Switch point drift		＜±10% Sr	＜±10% Sr	＜±10% Sr	＜±10% Sr
Output current	Attenuation	≤1mA	≤1mA	≤1mA	≤1mA
	Non-attenuation	≥2.2mA	≥2.2mA	≥2.2mA	≥2.2mA
Load impedance		≥1KΩ	≥1KΩ	≥1KΩ	≥1KΩ
Hysteresis		1…20%	1…20%	1…20%	1…20%
Repeat accuracy		＜3%	＜3%	＜3%	＜3%
Frequency		2000Hz	1500Hz	2000Hz	1500Hz
Output indicator		…	…	…	…
Polarity protection		…	…	…	…
Surge protection		…	…	…	…
Short-circuit protection		…	…	…	…
Ambient temperature		-25…+70℃	-25…+70℃	-25…+70℃	-25…+70℃
Ambient moisture		35…95%	35…95%	35…95%	35…95%
Protection degree		IP67	IP67	IP67	IP67
Housing material		Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy
Connection		2m PVC Cable	2m PVC Cable	M12 Connector	M12 Connector
Certification		CE UL	CE UL	CE UL	CE UL

★ Cable material and length can be customized

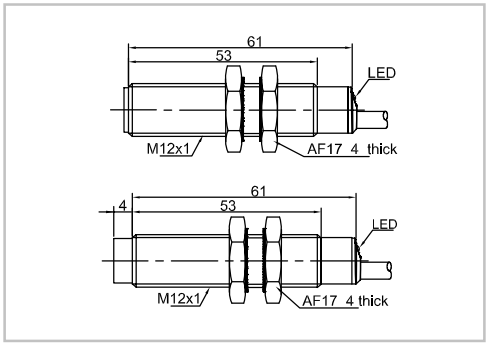


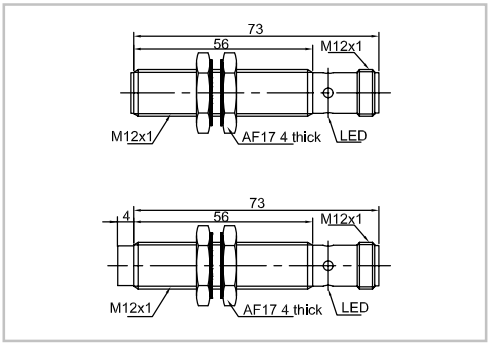


Item Code		LR12X		LR12X	
Mounting		● Flushed	◑ Non-flushed	● Flushed	◑ Non-flushed
Sensing distance		0.4... 2 mm	0.8... 4 mm	0.4... 2 mm	0.8... 4 mm
Output	0-10V	LR12XCF02LUM	LR12XCN04LUM	LR12XCF02LUM-E2	LR12XCN04LUM-E2
	0-20mA	LR12XCF02LIM	LR12XCN04LIM	LR12XCF02LIM-E2	LR12XCN04LIM-E2
	4-20mA	LR12XCF02LI4M	LR12XCN04LI4M	LR12XCF02LI4M-E2	LR12XCN04LI4M-E2
	0-10V+0-20mA	LR12XCF02LIUM	LR12XCN04LIUM	LR12XCF02LIUM-E2	LR12XCN04LIUM-E2

Technical Parameter				
Supply voltage	15...30 VDC	15...30 VDC	15...30 VDC	15...30 VDC
Switch point drift	＜±10% Sr	＜±10% Sr	＜±10% Sr	＜±10% Sr
Load current	Voltage output R_L≥4.7KΩ , Current output R_L≤470Ω		Voltage output R_L≥4.7KΩ , Current output R_L≤470Ω	
Voltage drop				
Consumption current	＜20mA	＜20mA	＜20mA	＜20mA
Hysteresis	＜±5%	＜±5%	＜±5%	＜±5%
Repeat accuracy	＜±3%	＜±3%	＜±3%	＜±3%
Frequency	200Hz	100Hz	200Hz	100Hz
Supply indicator	Yellow LED	Yellow LED	Yellow LED	Yellow LED
Polarity protection	yes	yes	yes	yes
Surge protection	yes	yes	yes	yes
Short-circuit protection	...	...	...	...
Ambient temperature	-25...+70℃	-25...+70℃	-25...+70℃	-25...+70℃
Ambient moisture	35...95%	35...95%	35...95%	35...95%
Protection degree	IP67	IP67	IP67	IP67
Housing material	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy
Connection	2m PVC Cable	2m PVC Cable	M12 Connector	M12 Connector
Certification	CE UL	CE UL	CE UL	CE UL

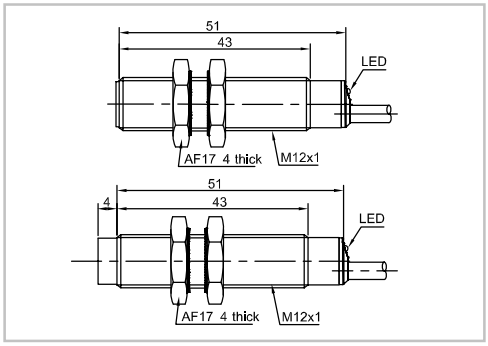
* Cable material and length can be customized

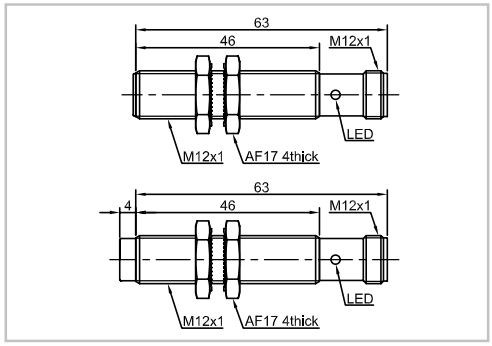




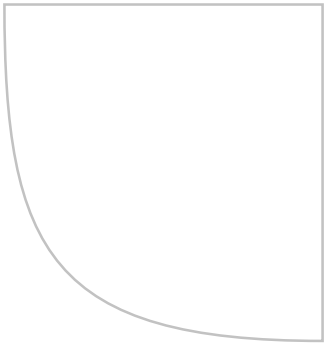
Item Code		LR12X		LR12X	
Mounting		● Flushed	◑ Non-flushed	● Flushed	◑ Non-flushed
Sensing distance		2mm	4mm	2mm	4mm
Output	NPN NO	LR12XBF02DNOW1	LR12XBN04DNOW1	LR12XBF02DNOW1-E2	LR12XBN04DNOW1-E2
	NPN NC	LR12XBF02DNCW1	LR12XBN04DNCW1	LR12XBF02DNCW1-E2	LR12XBN04DNCW1-E2
Output	PNP NO	LR12XBF02DPOW1	LR12XBN04DPOW1	LR12XBF02DPOW1-E2	LR12XBN04DPOW1-E2
	PNP NC	LR12XBF02DPCW1	LR12XBN04DPCW1	LR12XBF02DPCW1-E2	LR12XBN04DPCW1-E2

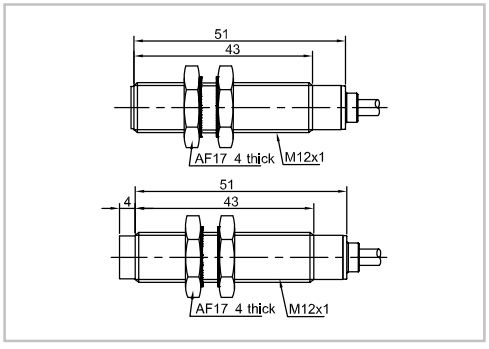
Technical Parameter				
Supply voltage	10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC
Switch point drift	＜±10% Sr	＜±10% Sr	＜±10% Sr	＜±10% Sr
Load current	＜200mA	＜200mA	＜200mA	＜200mA
Voltage drop	＜2.5V	＜2.5V	＜2.5V	＜2.5V
Consumption current	＜15mA	＜15mA	＜15mA	＜15mA
Hysteresis	1…20%	1…20%	1…20%	1…20%
Repeat accuracy	＜3%	＜3%	＜3%	＜3%
Frequency	1500Hz	1000Hz	1500Hz	1000Hz
Output indicator	Yellow LED	Yellow LED	Yellow LED	Yellow LED
Polarity protection	yes	yes	yes	yes
Surge protection	yes	yes	yes	yes
Short-circuit protection	yes	yes	yes	yes
Ambient temperature	-40...+70℃	-40...+70℃	-40...+70℃	-40...+70℃
Ambient moisture	35...95%	35...95%	35...95%	35...95%
Protection degree	IP67	IP67	IP67	IP67
Housing material	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy
Connection	2m PUR Cable	2m PUR Cable	M12 Connector	M12 Connector
Certification	CE UL	CE UL	CE UL	CE UL

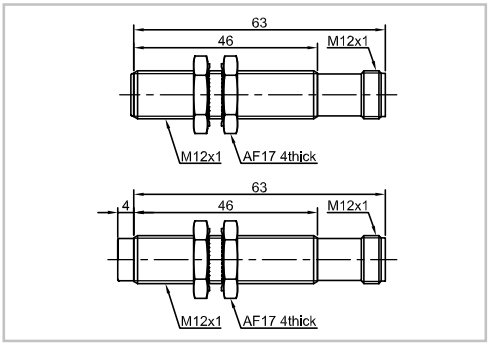




Item Code		LR12X		LR12X	
Mounting		● Flushed	◑ Non-flushed	● Flushed	◑ Non-flushed
Sensing distance		2mm	4mm	2mm	4mm
Output	NPN NO	LR12XBF02DNOW	LR12XBN04DNOW	LR12XBF02DNOW-E2	LR12XBN04DNOW-E2
	NPN NC	LR12XBF02DNCW	LR12XBN04DNCW	LR12XBF02DNCW-E2	LR12XBN04DNCW-E2
Output	PNP NO	LR12XBF02DPOW	LR12XBN04DPOW	LR12XBF02DPOW-E2	LR12XBN04DPOW-E2
	PNP NC	LR12XBF02DPCW	LR12XBN04DPCW	LR12XBF02DPCW-E2	LR12XBN04DPCW-E2
Technical Parameter					
Supply voltage		10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC
Switch point drift		＜±10% Sr	＜±10% Sr	＜±10% Sr	＜±10% Sr
Load current		＜100mA	＜100mA	＜100mA	＜100mA
Voltage drop		＜2.5V	＜2.5V	＜2.5V	＜2.5V
Consumption current		＜15mA	＜15mA	＜15mA	＜15mA
Hysteresis		1…20%	1…20%	1…20%	1…20%
Repeat accuracy		＜5%	＜5%	＜5%	＜5%
Frequency		1500Hz	1000Hz	1500Hz	1000Hz
Output indicator		...	...	...	...
Polarity protection		yes	yes	yes	yes
Surge protection		yes	yes	yes	yes
Short-circuit protection		...	...	...	...
Ambient temperature		-25...+120℃	-25...+120℃	-25...+120℃	-25...+120℃
Ambient moisture		35...95%	35...95%	35...95%	35...95%
Protection degree		IP67	IP67	IP67	IP67
Housing material		Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy
Connection		Silica Gel	Silica Gel	M12 Connector	M12 Connector
Certification		CE UL	CE UL	CE UL	CE UL



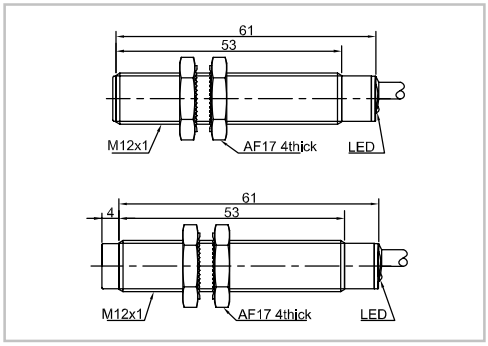


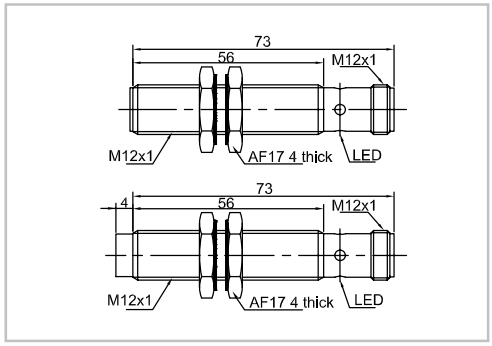


Item Code		LR12X		LR12X	
Mounting		● Flushed	◑ Non-flushed	● Flushed	◑ Non-flushed
Sensing distance		2mm	4mm	2mm	4mm
Output	NPN NO	LR12XCF02DNOG	LR12XCN04DNOG	LR12XCF02DNOG-E2	LR12XCN04DNOG-E2
	NPN NC	LR12XCF02DNCG	LR12XCN04DNCG	LR12XCF02DNCG-E2	LR12XCN04DNCG-E2
Output	PNP NO	LR12XCF02DPOG	LR12XCN04DPOG	LR12XCF02DPOG-E2	LR12XCN04DPOG-E2
	PNP NC	LR12XCF02DPCG	LR12XCN04DPCG	LR12XCF02DPCG-E2	LR12XCN04DPCG-E2

Technical Parameter				
Supply voltage	10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC
Switch point drift	＜±10% Sr	＜±10% Sr	＜±10% Sr	＜±10% Sr
Load current	＜200mA	＜200mA	＜200mA	＜200mA
Voltage drop	＜2.5V	＜2.5V	＜2.5V	＜2.5V
Consumption current	＜10mA	＜10mA	＜10mA	＜10mA
Hysteresis	1…20%	1…20%	1…20%	1…20%
Repeat accuracy	＜3%	＜3%	＜3%	＜3%
Frequency	4000Hz	3000Hz	4000Hz	3000Hz
Output indicator	Yellow LED	Yellow LED	Yellow LED	Yellow LED
Polarity protection	yes	yes	yes	yes
Surge protection	yes	yes	yes	yes
Short-circuit protection	yes	yes	yes	yes
Ambient temperature	-25...+70℃	-25...+70℃	-25...+70℃	-25...+70℃
Ambient moisture	35...95%	35...95%	35...95%	35...95%
Protection degree	IP67	IP67	IP67	IP67
Housing material	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy
Connection	2m PVC Cable	2m PVC Cable	M12 Connector	M12 Connector
Certification	CE UL	CE UL	CE UL	CE UL

★ Cable material and length can be customized





Inductive sensors/High pressure resistant

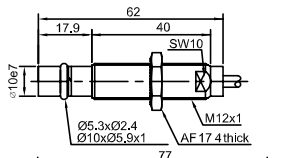
LR12X/LR18X

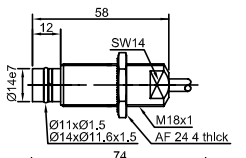
10-30VDC 3 Wires

Item Code		LR12X		LR18X	
Mounting		● Flushed	● Flushed	● Flushed	● Flushed
Sensing distance		1. 5mm	1. 5mm	2mm	2mm
Output	NPN NO	LR12XBF15DNOB	LR12XBF15DNOB-E2	LR18XBF02DNOB	LR18XBF02DNOB-E2
	NPN NC	LR12XBF15DNCB	LR12XBF15DNCB-E2	LR18XBF02DNCB	LR18XBF02DNCB-E2
Output	PNP NO	LR12XBF15DPOB	LR12XBF15DPOB-E2	LR18XBF02DPOB	LR18XBF02DPOB-E2
	PNP NC	LR12XBF15DPCB	LR12XBF15DPCB-E2	LR18XBF02DPCB	LR18XBF02DPCB-E2

Technical Parameter				
Supply voltage	10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC
Switch point drift	<±15% Sr	<±15% Sr	<±15% Sr	<±15% Sr
Load current	<100mA	<100mA	<100mA	<100mA
Voltage drop	<2.5V	<2.5V	<2.5V	<2.5V
Consumption current	<15mA	<15mA	<15mA	<15mA
Hysteresis	1···20%	1···20%	1···20%	1···20%
Repeat accuracy	<5%	<5%	<5%	<5%
Frequency	600Hz	600Hz	200Hz	200Hz
Output indicator	...	...	...	...
Polarity protection	yes	yes	yes	yes
Surge protection	yes	yes	yes	yes
Short-circuit protection	yes	yes	yes	yes
Withstand	500bar	500bar	500bar	500bar
Ambient temperature	-25...+80℃	-25...+80℃	-25...+80℃	-25...+80℃
Ambient moisture	35...95%	35...95%	35...95%	35...95%
Protection degree	IP68	IP68	IP68	IP68
Housing material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Connection	2m PUR Cable	M12 Connector	2m PUR Cable	M12 Connector
Certification	CE UL	CE UL	CE UL	CE UL

* Cable material and length can be customized

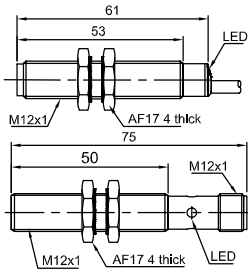


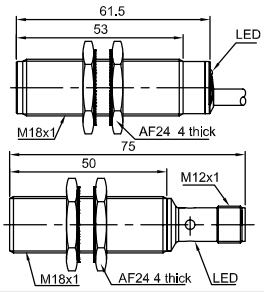


Item Code		LR12X		LR18X	
Mounting		● Flushed	● Flushed	● Flushed	● Flushed
Sensing distance		2mm	2mm	5mm	5mm
Output	NPN NO	LR12XCF02DNOQ	LR12XCF02DNOQ-E2	LR18XCF05DNOQ	LR18XCF05DNOQ-E2
	NPN NC	LR12XCF02DNCQ	LR12XCF02DNCQ-E2	LR18XCF05DNCQ	LR18XCF05DNCQ-E2
Output	PNP NO	LR12XCF02DPOQ	LR12XCF02DPOQ-E2	LR18XCF05DPOQ	LR18XCF05DPOQ-E2
	PNP NC	LR12XCF02DPCQ	LR12XCF02DPCQ-E2	LR18XCF05DPCQ	LR18XCF05DPCQ-E2

Technical Parameter				
Supply voltage	10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC
Switch point drift	＜±10% Sr	＜±10% Sr	＜±10% Sr	＜±10% Sr
Load current	＜200mA	＜200mA	＜200mA	＜200mA
Voltage drop	＜2.5V	＜2.5V	＜2.5V	＜2.5V
Consumption current	＜15mA	＜15mA	＜15mA	＜15mA
Hysteresis	1…20%	1…20%	1…20%	1…20%
Repeat accuracy	＜3%	＜3%	＜3%	＜3%
Frequency	300Hz	300Hz	200Hz	200Hz
Output indicator	Yellow LED	Yellow LED	Yellow LED	Yellow LED
Polarity protection	yes	yes	yes	yes
Surge protection	yes	yes	yes	yes
Short-circuit protection	yes	yes	yes	yes
Withstand	80bar	80bar	60bar	60bar
Ambient temperature	-25...+70℃	-25...+70℃	-25...+70℃	-25...+70℃
Ambient moisture	35...95%	35...95%	35...95%	35...95%
Protection degree	IP67	IP67	IP67	IP67
Housing material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Connection	2m PVC Cable	M12 Connector	2m PVC Cable	M12 Connector
Certification	CE UL	CE UL	CE UL	CE UL

* Cable material and length can be customized

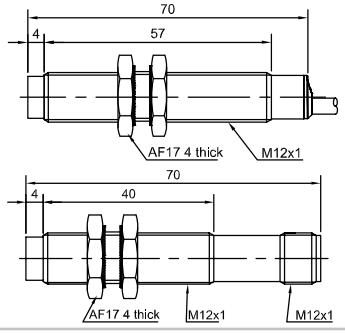


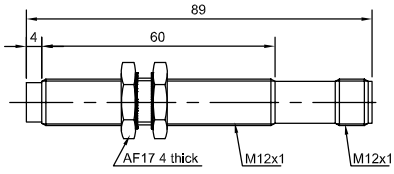


Item Code		LR12X	LR12X	LR12X	
Mounting		◑ Non-flushed	◑ Non-flushed	◑ Non-flushed	
Sensing distance		3. 7mm	3. 7mm	3. 7mm	
Output	PNP NO	LR12XCN37HPOZ	LR12XBN37HPOZ-E2	LR12XDN37HPOZ-E2	
	PNP NC	LR12XCN37HPCZ	LR12XBN37HPCZ-E2	LR12XDN37HPCZ-E2	

Technical Parameter				
Supply voltage	20...30 VDC	20...30 VDC	20...30 VDC	
Switch point drift	＜±10% Sr	＜±10% Sr	＜±10% Sr	
Load current	＜130mA	＜130mA	＜130mA	
Voltage drop	＜5V	＜5V	＜5V	
Consumption current	＜25mA	＜25mA	＜25mA	
Hysteresis	1…20%	1…20%	1…20%	
Repeat accuracy	＜5%	＜5%	＜5%	
Frequency	300Hz	300Hz	300Hz	
Output indicator	…	…	…	
Polarity protection	yes	yes	yes	
Surge protection	yes	yes	yes	
Short-circuit protection	yes	yes	yes	
Ambient temperature	-25...+70℃	-25...+70℃	-25...+70℃	
Ambient moisture	35...95%	35...95%	35...95%	
Protection degree	IP67	IP67	IP67	
Housing material	Nickel-copper Alloy	Nickel-copper Alloy	Nickel-copper Alloy	
Connection	2m PVC Cable	M12 Connector	M12 Connector	
Certification	CE UL	CE UL	CE UL	

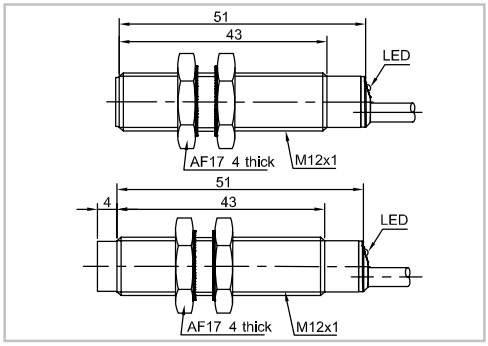
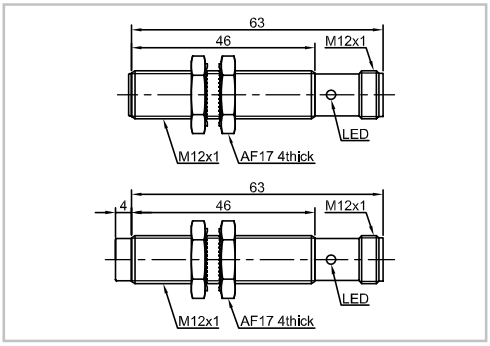
★ Cable material and length can be customized





10-30VDC 3 Wires (>100mT)

Item Code		LR12X		LR12X	
Mounting		● Flushed	◑ Non-flushed	● Flushed	◑ Non-flushed
Sensing distance		2mm	4mm	2mm	4mm
Output	NPN NO	LR12XBF02DNOA	LR12XBN04DNOA	LR12XBF02DNOA-E2	LR12XBN04DNOA-E2
	NPN NC	LR12XBF02DNCA	LR12XBN04DNCA	LR12XBF02DNCA-E2	LR12XBN04DNCA-E2
Output	PNP NO	LR12XBF02DPOA	LR12XBN04DPOA	LR12XBF02DPOA-E2	LR12XBN04DPOA-E2
	PNP NC	LR12XBF02DPCA	LR12XBN04DPCA	LR12XBF02DPCA-E2	LR12XBN04DPCA-E2

Technical Parameter				
Supply voltage	10...30 VDC	10...30 VDC	10...30 VDC	10...30 VDC
Switch point drift	<±10% Sr	<±10% Sr	<±10% Sr	<±10% Sr
Load current	<200mA	<200mA	<200mA	<200mA
Voltage drop	<2. 5V	<2. 5V	<2. 5V	<2. 5V
Consumption current	<15mA	<15mA	<15mA	<15mA
Hysteresis	1…20%	1…20%	1…20%	1…20%
Repeat accuracy	<3%	<3%	<3%	<3%
Frequency	3000Hz	2000Hz	3000Hz	2000Hz
Output indicator	Yellow LED	Yellow LED	Yellow LED	Yellow LED
Polarity protection	yes	yes	yes	yes
Surge protection	yes	yes	yes	yes
Short-circuit protection	yes	yes	yes	yes
Ambient temperature	-25...+70℃	-25...+70℃	-25...+70℃	-25...+70℃
Ambient moisture	35...95%	35...95%	35...95%	35...95%
Protection degree	IP67	IP67	IP67	IP67
Housing material	Brass+PTFE Coating	Brass+PTFE Coating	Brass+PTFE Coating	Brass+PTFE Coating
Connection	2m PVC Cable	2m PVC Cable	M12 Connector	M12 Connector
Certification	CE UL	CE UL	CE UL	CE UL

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