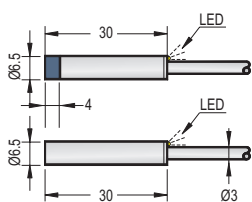


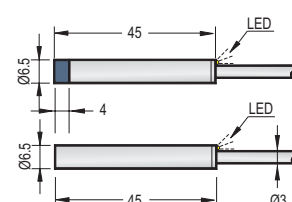


Features

- Ø6.5mm diameter
- 10-60VDC operating voltage
- Sn=1mm, shielded
2mm, non-shielded
- Stainless steel housing case
- Short-circuit protection
- Overload protection
- Reverse polarity protection
- 2 Wire Output
- NO,NC Function
- Cable version
- IP67 Protection



(Unit: mm)



(Unit: mm)



Connection		2m Cable		2m Cable	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Steel Case	2 Wire-NO	L6DC6.5X01A	L6DD6.5X02A	L6DE6.5X01A	L6DF6.5X02A
	2 Wire-NC	L6DC6.5Y01A	L6DD6.5Y02A	L6DE6.5Y01A	L6DF6.5Y02A
PBT Case	2 Wire-NO	L6NC6.5X01A	L6ND6.5X02A	L6NE6.5X01A	L6NF6.5X02A
	2 Wire-NC	L6NC6.5Y01A	L6ND6.5Y02A	L6NE6.5Y01A	L6NF6.5Y02A
General Data					
Housing size	Ø6.5mm		Ø6.5mm		
Installation type	Shielded	Non-shielded	Shielded	Non-shielded	
Sensing distance(Sn: mm)	1mm	2mm	1mm	2mm	
Standard sensing object	Steel 6.5x6.5x1mm		Steel 6.5x6.5x1mm		
Effective sensing distance (Sr: mm)	90 ... 110% of Sn		90 ... 110% of Sn		
Assured operating distance(Sa: mm)	0 ... 80% of Sn		0 ... 80% of Sn		
Hysteresis	<15%		<15%		
Housing material	Stainless steel		Stainless steel		
Operating voltage	10 ... 60VDC		10 ... 60VDC		
Electrical Data					
Rated operating voltage	24VDC		24VDC		
Repeated accuracy	±10%		±10%		
Ripple	<10%		<10%		
No load current	<10mA		<10mA		
Max. Load current	200mA		200mA		
Leakage current	<0.01mA		<0.01mA		
Voltage drop	<4.5V	<4.5V	<4.5V	<4.5V	
Switching frequency	2000Hz	2000Hz	2000Hz	2000Hz	
Response time	0.1ms/0.1ms	0.1ms/0.1ms	0.1ms/0.1ms	0.1ms/0.1ms	
Rated insulation voltage	75VDC		75VDC		
Operating temperature	-25°C ... +70°C		-25°C ... +70°C		
Storage temperature	-40°C ... +80°C		-40°C ... +80°C		
Temperature drift	<10%		<10%		
Power indicator	No		No		
Function indicator	Yellow LED		Yellow LED		
Reverse polarity protection	Yes		Yes		
Short-circuit protection	Yes		Yes		
Overload trip point	220mA		220mA		
Correction factors	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4		
Mechanical Data					
Sensing surface material	POM		POM		
Protection	IP67		IP67		
Shock rating	Shock, half-sinus, 30gn, 11ms		Shock, half-sinus, 30gn, 11ms		
Vibration rating	55Hz, 1mm ampl., 3x30min.		55Hz, 1mm ampl., 3x30min.		
EMC	IEC 60947-5-2		IEC 60947-5-2		
Accessory	/		/		
Connection	2m PVC cable (Ø3 2x0.15mm ²)		2m PVC cable (Ø3 2x0.15mm ²)		
Weight	Approx. 35g		Approx. 35g		



Features

- Ø6.5mm diameter
- 10-60VDC operating voltage
- Sn=1mm, shielded
2mm, non-shielded
- Stainless steel housing case
- Short-circuit protection
Overload protection
Reverse polarity protection
- 2 Wire Output
- NO,NC Function
- M8 connector version
- IP67 Protection

CE

(Unit: mm)

(Unit: mm)

Connection		3 Pin M8 Connector		3 Pin M8 Connector	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Steel Case	2 Wire-NO	L6DC6.5X01F	L6DD6.5X02F	L6DE6.5X01F	L6DF6.5X02F
	2 Wire-NC	L6DC6.5Y01F	L6DD6.5Y02F	L6DE6.5Y01F	L6DF6.5Y02F
PBT Case	2 Wire-NO	L6NC6.5X01F	L6ND6.5X02F	L6NE6.5X01F	L6NF6.5X02F
	2 Wire-NC	L6NC6.5Y01F	L6ND6.5Y02F	L6NE6.5Y01F	L6NF6.5Y02F

General Data		Ø6.5mm		Ø6.5mm	
Installation type		Shielded	Non-shielded	Shielded	Non-shielded
Sensing distance(Sn: mm)		1mm	2mm	1mm	2mm
Standard sensing object		Steel 6.5x6.5x1mm	Steel 6.5x6.5x1mm	Steel 6.5x6.5x1mm	Steel 6.5x6.5x1mm
Effective sensing distance (Sr: mm)		90 ... 110% of Sn		90 ... 110% of Sn	
Assured operating distance(Sa: mm)		0 ... 80% of Sn		0 ... 80% of Sn	
Hysteresis		<15%		<15%	
Housing material		Stainless steel		Stainless steel	
Operating voltage		10 ... 60VDC		10 ... 60VDC	

Electrical Data					
Rated operating voltage		24VDC		24VDC	
Repeated accuracy		±10%		±10%	
Ripple		<10%		<10%	
No load current		<10mA		<10mA	
Max. Load current		200mA		200mA	
Leakage current		<0.01mA		<0.01mA	
Voltage drop		<4.5V	<4.5V	<4.5V	<4.5V
Switching frequency		2000Hz	2000Hz	2000Hz	2000Hz
Response time		0.1ms/0.1ms	0.1ms/0.1ms	0.1ms/0.1ms	0.1ms/0.1ms
Rated insulation voltage		75VDC		75VDC	
Operating temperature		-25°C ... +70°C		-25°C ... +70°C	
Storage temperature		-40°C ... +80°C		-40°C ... +80°C	
Temperature drift		<10%		<10%	
Power indicator		No		No	
Function indicator		Yellow LED		Yellow LED	
Reverse polarity protection		Yes		Yes	
Short-circuit protection		Yes		Yes	
Overload trip point		220mA		220mA	
Correction factors		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4	

Mechanical Data					
Sensing surface material		POM		POM	
Protection		IP67		IP67	
Shock rating		Shock, half-sinus, 30gn, 11ms		Shock, half-sinus, 30gn, 11ms	
Vibration rating		55Hz, 1mm ampl., 3x30min.		55Hz, 1mm ampl., 3x30min.	
EMC		IEC 60947-5-2		IEC 60947-5-2	
Accessory		/		/	
Connection		Pico-style 3 Pin M8 connector		Pico-style 3 Pin M8 connector	
Weight		Approx. 16g		Approx. 17g	



Features

- Ø6.5mm diameter
- 10-60VDC operating voltage
- Sn=1mm, shielded
2mm, non-shielded
- Stainless steel housing case
- Short-circuit protection
- Overload protection
- Reverse polarity protection
- 2 Wire Output
- NO,NC Function
- M12 connector version
- IP67 Protection

CE

(Unit: mm)

(Unit: mm)

(Unit: mm)

Connection		4 Pin M12 Connector		4 Pin M12 Connector	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Steel Case	2 Wire-NO	L6DC6.5X01H	L6DD6.5X02H	L6DE6.5X01H	L6DF6.5X02H
	2 Wire-NC	L6DC6.5Y01H	L6DD6.5Y02H	L6DE6.5Y01H	L6DF6.5Y02H
PBT Case	2 Wire-NO	L6NC6.5X01H	L6ND6.5X02H	L6NE6.5X01H	L6NF6.5X02H
	2 Wire-NC	L6NC6.5Y01H	L6ND6.5Y02H	L6NE6.5Y01H	L6NF6.5Y02H

General Data		Ø6.5mm		Ø6.5mm	
Installation type		Shielded	Non-shielded	Shielded	Non-shielded
Sensing distance(Sn: mm)		1mm	2mm	1mm	2mm
Standard sensing object		Steel 6.5x6.5x1mm	Steel 6.5x6.5x1mm	Steel 6.5x6.5x1mm	Steel 6.5x6.5x1mm
Effective sensing distance (Sr: mm)		90 ... 110% of Sn		90 ... 110% of Sn	
Assured operating distance(Sa: mm)		0 ... 80% of Sn		0 ... 80% of Sn	
Hysteresis		<15%		<15%	
Housing material		Stainless steel		Stainless steel	
Operating voltage		10 ... 60VDC		10 ... 60VDC	

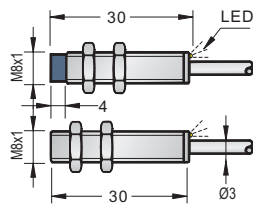
Electrical Data					
Rated operating voltage		24VDC		24VDC	
Repeated accuracy		±10%		±10%	
Ripple		<10%		<10%	
No load current		<10mA		<10mA	
Max. Load current		200mA		200mA	
Leakage current		<0.01mA		<0.01mA	
Voltage drop		<4.5V	<4.5V	<4.5V	<4.5V
Switching frequency		2000Hz	2000Hz	2000Hz	2000Hz
Response time		0.1ms/0.1ms	0.1ms/0.1ms	0.1ms/0.1ms	0.1ms/0.1ms
Rated insulation voltage		75VDC		75VDC	
Operating temperature		-25°C ... +70°C		-25°C ... +70°C	
Storage temperature		-40°C ... +80°C		-40°C ... +80°C	
Temperature drift		<10%		<10%	
Power indicator		No		No	
Function indicator		Yellow LED		Yellow LED	
Reverse polarity protection		Yes		Yes	
Short-circuit protection		Yes		Yes	
Overload trip point		220mA		220mA	
Correction factors		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4	

Mechanical Data					
Sensing surface material		POM		POM	
Protection		IP67		IP67	
Shock rating		Shock, half-sinus, 30gn, 11ms		Shock, half-sinus, 30gn, 11ms	
Vibration rating		55Hz, 1mm ampl., 3x30min.		55Hz, 1mm ampl., 3x30min.	
EMC		IEC 60947-5-2		IEC 60947-5-2	
Accessory		/		/	
Connection		Euro-style 4 Pin M12 Connector		Euro-style 4 Pin M12 Connector	
Weight		Approx. 35g		Approx. 36g	

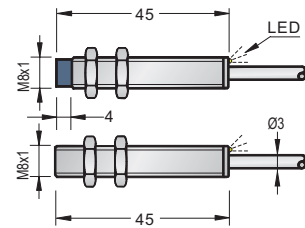


Features

- M8mm diameter
- 10-60VDC operating voltage
- Sn=1mm, shielded
2mm, non-shielded
- Stainless steel housing case
- Short-circuit protection
- Overload protection
- Reverse polarity protection
- 2 Wire Output
- NO,NC Function
- Cable version
- IP67 Protection



(Unit: mm)



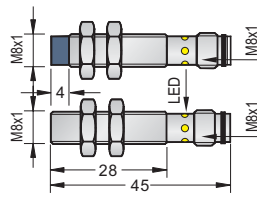
(Unit: mm)



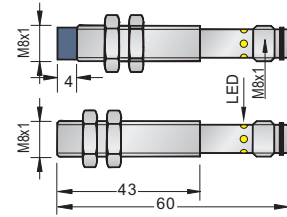
Connection		2m Cable		2m Cable	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Steel Case	2 Wire-NO	L6CC08X01A	L6CD08X02A	L6CE08X01A	L6CF08X02A
	2 Wire-NC	L6CC08Y01A	L6CD08Y02A	L6CE08Y01A	L6CF08Y02A
PBT Case	2 Wire-NO	L6MC08X01A	L6MD08X02A	L6ME08X01A	L6MF08X02A
	2 Wire-NC	L6MC08Y01A	L6MD08Y02A	L6ME08Y01A	L6MF08Y02A
General Data					
Housing size	M8mm			M8mm	
Installation type	Shielded	Non-shielded		Shielded	Non-shielded
Sensing distance(Sn: mm)	1mm	2mm		1mm	2mm
Standard sensing object	Steel 8x8x1mm		Steel 8x8x1mm	Steel 8x8x1mm	Steel 8x8x1mm
Effective sensing distance (Sr: mm)	90 ... 110% of Sn			90 ... 110% of Sn	
Assured operating distance(Sa: mm)	0 ... 80% of Sn			0 ... 80% of Sn	
Hysteresis	<15%			<15%	
Housing material	Stainless steel			Stainless steel	
Operating voltage	10 ... 60VDC			10 ... 60VDC	
Electrical Data					
Rated operating voltage	24VDC			24VDC	
Repeated accuracy	±10%			±10%	
Ripple	<10%			<10%	
No load current	<10mA			<10mA	
Max. Load current	200mA			200mA	
Leakage current	<0.01mA			<0.01mA	
Voltage drop	<4.5V	<4.5V		<4.5V	<4.5V
Switching frequency	2000Hz	2000Hz		2000Hz	2000Hz
Response time	0.1ms/0.1ms	0.1ms/0.1ms		0.1ms/0.1ms	0.1ms/0.1ms
Rated insulation voltage	75VDC			75VDC	
Operating temperature	-25°C ... +70°C			-25°C ... +70°C	
Storage temperature	-40°C ... +80°C			-40°C ... +80°C	
Temperature drift	<10%			<10%	
Power indicator	No			No	
Function indicator	Yellow LED			Yellow LED	
Reverse polarity protection	Yes			Yes	
Short-circuit protection	Yes			Yes	
Overload trip point	220mA			220mA	
Correction factors	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4			Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4	
Mechanical Data					
Sensing surface material	POM			POM	
Protection	IP67			IP67	
Shock rating	Shock, half-sinus, 30gn, 11ms			Shock, half-sinus, 30gn, 11ms	
Vibration rating	55Hz, 1mm ampl., 3x30min.			55Hz, 1mm ampl., 3x30min.	
EMC	IEC 60947-5-2			IEC 60947-5-2	
Accessory	2 nuts			2 nuts	
Connection	2m PVC cable (Ø3 2x0.15mm ²)			2m PVC cable (Ø3 2x0.15mm ²)	
Weight	Approx. 34g			Approx. 35g	

Features

- M8mm diameter
- 10-60VDC operating voltage
- Sn=1mm, shielded
2mm, non-shielded
- Stainless steel housing case
- Short-circuit protection
Overload protection
Reverse polarity protection
- 2 Wire Output
- NO,NC Function
- M8 connector version
- IP67 Protection



(Unit: mm)



(Unit: mm)

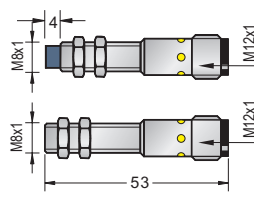


Connection		3 Pin M8 Connector		3 Pin M8 Connector	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Steel Case	2 Wire-NO	L6CC08X01F	L6CD08X02F	L6CE08X01F	L6CF08X02F
	2 Wire-NC	L6CC08Y01F	L6CD08Y02F	L6CE08Y01F	L6CF08Y02F
PBT Case	2 Wire-NO	L6MC08X01F	L6MD08X02F	L6ME08X01F	L6MF08X02F
	2 Wire-NC	L6MC08Y01F	L6MD08Y02F	L6ME08Y01F	L6MF08Y02F
General Data					
Housing size	M8mm			M8mm	
Installation type	Shielded	Non-shielded		Shielded	Non-shielded
Sensing distance(Sn: mm)	1mm	2mm		1mm	2mm
Standard sensing object	Steel 8x8x1mm	Steel 8x8x1mm		Steel 8x8x1mm	Steel 8x8x1mm
Effective sensing distance (Sr: mm)	90 ... 110% of Sn			90 ... 110% of Sn	
Assured operating distance(Sa: mm)	0 ... 80% of Sn			0 ... 80% of Sn	
Hysteresis	<15%			<15%	
Housing material	Stainless steel			Stainless steel	
Operating voltage	10 ... 60VDC			10 ... 60VDC	
Electrical Data					
Rated operating voltage	24VDC			24VDC	
Repeated accuracy	±10%			±10%	
Ripple	<10%			<10%	
No load current	<10mA			<10mA	
Max. Load current	200mA			200mA	
Leakage current	<0.01mA			<0.01mA	
Voltage drop	<4.5V	<4.5V		<4.5V	<4.5V
Switching frequency	2000Hz	2000Hz		2000Hz	2000Hz
Response time	0.1ms/0.1ms	0.1ms/0.1ms		0.1ms/0.1ms	0.1ms/0.1ms
Rated insulation voltage	75VDC			75VDC	
Operating temperature	-25°C ... +70°C			-25°C ... +70°C	
Storage temperature	-40°C ... +80°C			-40°C ... +80°C	
Temperature drift	<10%			<10%	
Power indicator	No			No	
Function indicator	Yellow LED			Yellow LED	
Reverse polarity protection	Yes			Yes	
Short-circuit protection	Yes			Yes	
Overload trip point	220mA			220mA	
Correction factors	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4			Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4	
Mechanical Data					
Sensing surface material	POM			POM	
Protection	IP67			IP67	
Shock rating	Shock, half-sinus, 30gn, 11ms			Shock, half-sinus, 30gn, 11ms	
Vibration rating	55Hz, 1mm ampl., 3x30min.			55Hz, 1mm ampl., 3x30min.	
EMC	IEC 60947-5-2			IEC 60947-5-2	
Accessory	2 nuts			2 nuts	
Connection	3 Pin M8 connector			3 Pin M8 connector	
Weight	Approx. 15g			Approx. 16g	

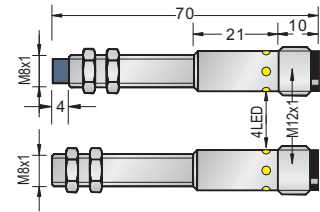


Features

- M8mm diameter
- 10-60VDC operating voltage
- Sn=1mm, shielded
2mm, non-shielded
- Stainless steel housing case
- Short-circuit protection
- Overload protection
- Reverse polarity protection
- 2 Wire Output
- NO,NC Function
- M12 connector version
- IP67 Protection



(Unit: mm)



(Unit: mm)



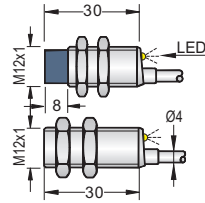
Connection		4 Pin M12 Connector		4 Pin M12 Connector	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Steel Case	2 Wire-NO	L6CC08X01H	L6CD08X02H	L6CE08X01H	L6CF08X02H
	2 Wire-NC	L6CC08Y01H	L6CD08Y02H	L6CE08Y01H	L6CF08Y02H
PBT Case	2 Wire-NO	L6MC08X01H	L6MD08X02H	L6ME08X01H	L6MF08X02H
	2 Wire-NC	L6MC08Y01H	L6MD08Y02H	L6ME08Y01H	L6MF08Y02H
General Data					
Housing size	M8mm			M8mm	
Installation type	Shielded	Non-shielded		Shielded	Non-shielded
Sensing distance(Sn: mm)	1mm	2mm		1mm	2mm
Standard sensing object	Steel 8x8x1mm		Steel 8x8x1mm	Steel 8x8x1mm	Steel 8x8x1mm
Effective sensing distance (Sr: mm)	90 ... 110% of Sn			90 ... 110% of Sn	
Assured operating distance(Sa: mm)	0 ... 80% of Sn			0 ... 80% of Sn	
Hysteresis	<15%			<15%	
Housing material	Stainless steel			Stainless steel	
Operating voltage	10 ... 60VDC			10 ... 60VDC	
Electrical Data					
Rated operating voltage	24VDC			24VDC	
Repeated accuracy	±10%			±10%	
Ripple	<10%			<10%	
No load current	<10mA			<10mA	
Max. Load current	200mA			200mA	
Leakage current	<0.01mA			<0.01mA	
Voltage drop	<4.5V	<4.5V		<4.5V	<4.5V
Switching frequency	2000Hz	2000Hz		2000Hz	2000Hz
Response time	0.1ms/0.1ms	0.1ms/0.1ms		0.1ms/0.1ms	0.1ms/0.1ms
Rated insulation voltage	75VDC			75VDC	
Operating temperature	-25°C ... +70°C			-25°C ... +70°C	
Storage temperature	-40°C ... +80°C			-40°C ... +80°C	
Temperature drift	<10%			<10%	
Power indicator	No			No	
Function indicator	Yellow LED			Yellow LED	
Reverse polarity protection	Yes			Yes	
Short-circuit protection	Yes			Yes	
Overload trip point	220mA			220mA	
Correction factors	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4			Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4	
Mechanical Data					
Sensing surface material	POM			POM	
Protection	IP67			IP67	
Shock rating	Shock, half-sinus, 30gn, 11ms			Shock, half-sinus, 30gn, 11ms	
Vibration rating	55Hz, 1mm ampl., 3x30min.			55Hz, 1mm ampl., 3x30min.	
EMC	IEC 60947-5-2			IEC 60947-5-2	
Accessory	2 nuts			2 nuts	
Connection	4 Pin M12 connector			4 Pin M12 connector	
Weight	Approx. 20g			Approx. 22g	



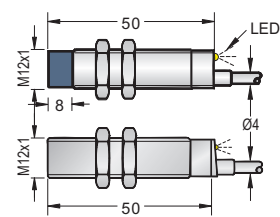
DC 2 Wire Inductive Proximity Sensors

Features

- M12mm diameter
- 10-60VDC operating voltage
- Sn=2mm, shielded
4mm, non-shielded
- Brass housing case
PBT housing case
- Short-circuit protection
Overload protection
Reverse polarity protection
- 2 Wire Output
- NO,NC Function
- Cable version
- IP67 Protection



(Unit: mm)



(Unit: mm)

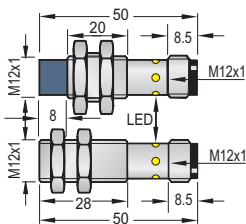


Connection		2m Cable		2m Cable	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Brass Case	2 Wire-NO	L6AC12X02A	L6AD12X04A	L6AE12X02A	L6AF12X04A
	2 Wire-NC	L6AC12Y02A	L6AD12Y04A	L6AE12Y02A	L6AF12Y04A
PBT Case	2 Wire-NO	L6MC12X02A	L6MD12X04A	L6ME12X02A	L6MF12X04A
	2 Wire-NC	L6MC12Y02A	L6MD12Y04A	L6ME12Y02A	L6MF12Y04A
General Data					
Housing size	M12mm			M12mm	
Installation type	Shielded	Non-shielded		Shielded	Non-shielded
Sensing distance(Sn: mm)	2mm	4mm		2mm	4mm
Standard sensing object	Steel 12x12x1mm	Steel 12x12x1mm		Steel 12x12x1mm	Steel 12x12x1mm
Effective sensing distance (Sr: mm)	90 ... 110% of Sn			90 ... 110% of Sn	
Assured operating distance(Sa: mm)	0 ... 80% of Sn			0 ... 80% of Sn	
Hysteresis	<15%			<15%	
Housing material	Nickel plated brass/PBT Resin			Nickel plated brass/PBT Resin	
Operating voltage	10 ... 60VDC			10 ... 60VDC	
Electrical Data					
Rated operating voltage	24VDC			24VDC	
Repeated accuracy	±10%			±10%	
Ripple	<10%			<10%	
No load current	<10mA			<10mA	
Max. Load current	200mA			200mA	
Leakage current	<0.01mA			<0.01mA	
Voltage drop	<4.5V	<4.5V		<4.5V	<4.5V
Switching frequency	2000Hz	1000Hz		2000Hz	2000Hz
Response time	0.1ms/0.1ms	0.2ms/0.2ms		0.1ms/0.1ms	0.1ms/0.1ms
Rated insulation voltage	75VDC			75VDC	
Operating temperature	-25°C ... +70°C			-25°C ... +70°C	
Storage temperature	-40°C ... +80°C			-40°C ... +80°C	
Temperature drift	<10%			<10%	
Power indicator	No			No	
Function indicator	Yellow LED			Yellow LED	
Reverse polarity protection	Yes			Yes	
Short-circuit protection	Yes			Yes	
Overload trip point	220mA			220mA	
Correction factors	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4			Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4	
Mechanical Data					
Sensing surface material	PBT			PBT	
Protection	IP67			IP67	
Shock rating	Shock, half-sinus, 30gn, 11ms			Shock, half-sinus, 30gn, 11ms	
Vibration rating	55Hz, 1mm ampl., 3x30min.			55Hz, 1mm ampl., 3x30min.	
EMC	IEC 60947-5-2			IEC 60947-5-2	
Accessory	2 nuts			2 nuts	
Connection	2m PVC cable (Ø4 2x0.34mm ²)			2m PVC cable (Ø4 2x0.34mm ²)	
Weight	Approx. 65g			Approx. 67g	

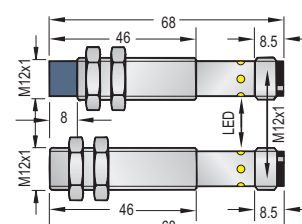


Features

- M12mm diameter
- 10-60VDC operating voltage
- Sn=2mm, shielded
4mm, non-shielded
- Brass housing case
PBT housing case
- Short-circuit protection
Overload protection
Reverse polarity protection
- 2 Wire Output
- NO,NC Function
- M12 connector version
- IP67 Protection



(Unit: mm)



(Unit: mm)

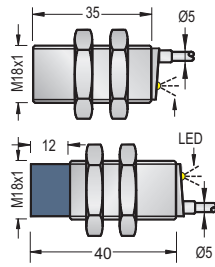


Connection		4 Pin M12 Connector		4 Pin M12 Connector	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Brass Case	2 Wire-NO	L6AC12X02H	L6AD12X04H	L6AE12X02H	L6AF12X04H
	2 Wire-NC	L6AC12Y02H	L6AD12Y04H	L6AE12Y02H	L6AF12Y04H
PBT Case	2 Wire-NO	L6MC12X02H	L6MD12X04H	L6ME12X02H	L6MF12X04H
	2 Wire-NC	L6MC12Y02H	L6MD12Y04H	L6ME12Y02H	L6MF12Y04H
General Data					
Housing size	M12mm		M12mm		M12mm
Installation type	Shielded		Non-shielded		Shielded
Sensing distance(Sn: mm)	2mm		4mm		2mm
Standard sensing object	Steel 12x12x1mm		Steel 12x12x1mm		Steel 12x12x1mm
Effective sensing distance (Sr: mm)	90 ... 110% of Sn		90 ... 110% of Sn		90 ... 110% of Sn
Assured operating distance(Sa: mm)	0 ... 80% of Sn		0 ... 80% of Sn		0 ... 80% of Sn
Hysteresis	<15%		<15%		<15%
Housing material	Nickel plated brass/PBT Resin		Nickel plated brass/PBT Resin		Nickel plated brass/PBT Resin
Operating voltage	10 ... 60VDC		10 ... 60VDC		10 ... 60VDC
Electrical Data					
Rated operating voltage	24VDC		24VDC		24VDC
Repeated accuracy	±10%		±10%		±10%
Ripple	<10%		<10%		<10%
No load current	<10mA		<10mA		<10mA
Max. Load current	200mA		200mA		200mA
Leakage current	<0.01mA		<0.01mA		<0.01mA
Voltage drop	<4.5V		<4.5V		<4.5V
Switching frequency	2000Hz		1000Hz		2000Hz
Response time	0.1ms/0.1ms		0.2ms/0.2ms		0.1ms/0.1ms
Rated insulation voltage	75VDC		75VDC		75VDC
Operating temperature	-25°C ... +70°C		-25°C ... +70°C		-25°C ... +70°C
Storage temperature	-40°C ... +80°C		-40°C ... +80°C		-40°C ... +80°C
Temperature drift	<10%		<10%		<10%
Power indicator	No		No		No
Function indicator	Yellow LED		Yellow LED		Yellow LED
Reverse polarity protection	Yes		Yes		Yes
Short-circuit protection	Yes		Yes		Yes
Overload trip point	220mA		220mA		220mA
Correction factors	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4
Mechanical Data					
Sensing surface material	PBT		PBT		PBT
Protection	IP67		IP67		IP67
Shock rating	Shock, half-sinus, 30gn, 11ms		Shock, half-sinus, 30gn, 11ms		Shock, half-sinus, 30gn, 11ms
Vibration rating	55Hz, 1mm ampl., 3x30min.		55Hz, 1mm ampl., 3x30min.		55Hz, 1mm ampl., 3x30min.
EMC	IEC 60947-5-2		IEC 60947-5-2		IEC 60947-5-2
Accessory	2 nuts		2 nuts		2 nuts
Connection	4 Pin M12 connector		4 Pin M12 connector		4 Pin M12 connector
Weight	Approx. 30g		Approx. 30g		Approx. 30g

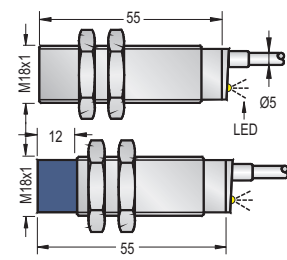


Features

- M18mm diameter
- 10-60VDC operating voltage
- Sn=5mm, shielded
8mm, non-shielded
- Brass housing case
PBT housing case
- Short-circuit protection
Overload protection
Reverse polarity protection
- 2 Wire Output
- NO,NC Function
- Cable version
- IP67 Protection



(Unit: mm)



(Unit: mm)

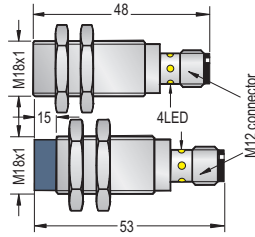


Connection		2m Cable		2m Cable	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Brass Case	2 Wire-NO	L6AC18X05A	L6AD18X08A	L6AE18X05A	L6AF18X08A
	2 Wire-NC	L6AC18Y05A	L6AD18Y08A	L6AE18Y05A	L6AF18Y08A
PBT Case	2 Wire-NO	L6MC18X05A	L6MD18X08A	L6ME18X05A	L6MF18X08A
	2 Wire-NC	L6MC18Y05A	L6MD18Y08A	L6ME18Y05A	L6MF18Y08A
General Data					
Housing size	M18mm		M18mm		
Installation type	Shielded	Non-shielded	Shielded	Non-shielded	
Sensing distance(Sn: mm)	5mm	8mm	5mm	8mm	
Standard sensing object	Steel 18x18x1mm	Steel 24x24x1mm	Steel 18x18x1mm	Steel 24x24x1mm	
Effective sensing distance (Sr: mm)	90 ... 110% of Sn		90 ... 110% of Sn		
Assured operating distance(Sa: mm)	0 ... 80% of Sn		0 ... 80% of Sn		
Hysteresis	<15%		<15%		
Housing material	Nickel plated brass/PBT Resin		Nickel plated brass/PBT Resin		
Operating voltage	10 ... 60VDC		10 ... 60VDC		
Electrical Data					
Rated operating voltage	24VDC		24VDC		
Repeated accuracy	±10%		±10%		
Ripple	<10%		<10%		
No load current	<10mA		<10mA		
Max. Load current	200mA		200mA		
Leakage current	<0.01mA		<0.01mA		
Voltage drop	<4.5V	<4.5V	<4.5V	<4.5V	
Switching frequency	2000Hz	500Hz	2000Hz	500Hz	
Response time	0.2ms/0.2ms	0.5ms/0.5ms	0.2ms/0.2ms	0.5ms/0.5ms	
Rated insulation voltage	75VDC		75VDC		
Operating temperature	-25°C ... +70°C		-25°C ... +70°C		
Storage temperature	-40°C ... +80°C		-40°C ... +80°C		
Temperature drift	<10%		<10%		
Power indicator	No		No		
Function indicator	Yellow LED		Yellow LED		
Reverse polarity protection	Yes		Yes		
Short-circuit protection	Yes		Yes		
Overload trip point	220mA		220mA		
Correction factors	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4		
Mechanical Data					
Sensing surface material	PBT		PBT		
Protection	IP67		IP67		
Shock rating	Shock, half-sinus, 30gn, 11ms		Shock, half-sinus, 30gn, 11ms		
Vibration rating	55Hz, 1mm ampl., 3x30min.		55Hz, 1mm ampl., 3x30min.		
EMC	IEC 60947-5-2		IEC 60947-5-2		
Accessory	2 nuts		2 nuts		
Connection	2m PVC cable (Ø5 2x0.5mm ²)		2m PVC cable (Ø5 2x0.5mm ²)		
Weight	Approx. 134g		Approx. 153g		

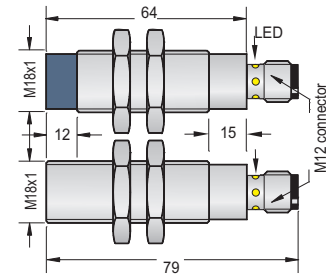


Features

- M18mm diameter
- 10-60VDC operating voltage
- Sn=5mm, shielded
8mm, non-shielded
- Brass housing case
PBT housing case
- Short-circuit protection
Overload protection
Reverse polarity protection
- 2 Wire Output
- NO,NC Function
- M12 connector version
- IP67 Protection



(Unit: mm)



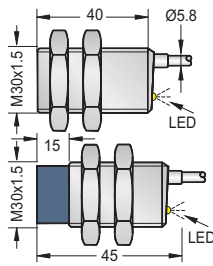
(Unit: mm)



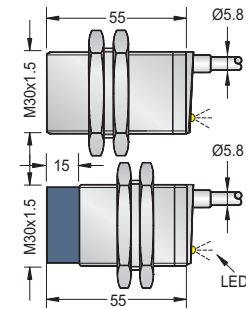
Connection		4 Pin M12 Connector		4 Pin M12 Connector	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Brass Case	2 Wire-NO				
	2 Wire-NC				
PBT Case	2 Wire-NO	LF2B-3415T-A2D2	LF2B-3425T-A2D2	LF2B-3415T-A2D2	LF2B-3425T-A2D2
	2 Wire-NC	LF2B-3415T-B2D2	LF2B-3425T-B2D2	LF2B-3415T-B2D2	LF2B-3425T-B2D2
General Data					
Housing size	M18mm			M18mm	
Installation type	Shielded	Non-shielded		Shielded	Non-shielded
Sensing distance(Sn: mm)	5mm	8mm		5mm	8mm
Standard sensing object	Steel 18x18x1mm	Steel 24x24x1mm		Steel 18x18x1mm	Steel 24x24x1mm
Effective sensing distance (Sr: mm)	90 ... 110% of Sn			90 ... 110% of Sn	
Assured operating distance(Sa: mm)	0 ... 80% of Sn			0 ... 80% of Sn	
Hysteresis	<15%			<15%	
Housing material	Nickel plated brass/PBT Resin			Nickel plated brass/PBT Resin	
Operating voltage	10 ... 60VDC			10 ... 60VDC	
Electrical Data					
Rated operating voltage	24VDC			24VDC	
Repeated accuracy	±10%			±10%	
Ripple	<10%			<10%	
No load current	<10mA			<10mA	
Max. Load current	200mA			200mA	
Leakage current	<0.01mA			<0.01mA	
Voltage drop	<4.5V	<4.5V		<4.5V	<4.5V
Switching frequency	2000Hz	500Hz		2000Hz	500Hz
Response time	0.2ms/0.2ms	0.5ms/0.5ms		0.2ms/0.2ms	0.5ms/0.5ms
Rated insulation voltage	75VDC			75VDC	
Operating temperature	-25°C ... +70°C			-25°C ... +70°C	
Storage temperature	-40°C ... +80°C			-40°C ... +80°C	
Temperature drift	<10%			<10%	
Power indicator	No			No	
Function indicator	Yellow LED			Yellow LED	
Reverse polarity protection	Yes			Yes	
Short-circuit protection	Yes			Yes	
Overload trip point	220mA			220mA	
Correction factors	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4			Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4	
Mechanical Data					
Sensing surface material	PBT			PBT	
Protection	IP67			IP67	
Shock rating	Shock, half-sinus, 30gn, 11ms			Shock, half-sinus, 30gn, 11ms	
Vibration rating	55Hz, 1mm ampl., 3x30min.			55Hz, 1mm ampl., 3x30min.	
EMC	IEC 60947-5-2			IEC 60947-5-2	
Accessory	2 nuts			2 nuts	
Connection	4 Pin M12 connector			4 Pin M12 connector	
Weight	Approx. 50g			Approx. 94g	

Features

- M30mm diameter
- 10-60VDC operating voltage
- Sn=10mm, shielded
15mm, non-shielded
- Nickel plated Brass housing case
PBT housing case
- Short circuit protection
- Overload protection
- Reverse-polarity protection
- 2 Wire Output
- NO, NC Function
- Cable version
- IP67 protection



(Unit: mm)



(Unit: mm)

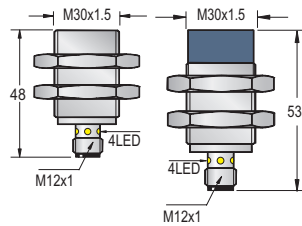


Connection		2m Cable		2m Cable	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Brass Case	2 Wire-NO	L6AC30X10A	L6AD30X08A	L6AE30X10A	L6AF30X15A
	2 Wire-NC	L6AC30Y10A	L6AD30Y15A	L6AE30Y10A	L6AF30Y15A
PBT Case	2 Wire-NO	L6MC30X10A	L6MD30X15A	L6ME30X10A	L6MF30X15A
	2 Wire-NC	L6MC30Y10A	L6MD30Y15A	L6ME30Y10A	L6MF30Y15A
General Data					
Housing size	M30mm			M30mm	
Installation type	Shielded	Non-shielded		Shielded	Non-shielded
Sensing distance(Sn: mm)	10mm	15mm		10mm	15mm
Standard sensing object	Steel 30x30x1mm	Steel 45x45x1mm		Steel 30x30x1mm	Steel 45x45x1mm
Effective sensing distance (Sr: mm)	90 ... 110% of Sn			90 ... 110% of Sn	
Assured operating distance(Sa: mm)	0 ... 80% of Sn			0 ... 80% of Sn	
Hysteresis	<15%			<15%	
Housing material	Nickel plated brass/PBT Resin			Nickel plated brass/PBT Resin	
Operating voltage	10 ... 60VDC			10 ... 60VDC	
Electrical Data					
Rated operating voltage	24VDC			24VDC	
Repeated accuracy	±10%			±10%	
Ripple	<10%			<10%	
No load current	<10mA			<10mA	
Max. Load current	200mA			200mA	
Leakage current	<0.01mA			<0.01mA	
Voltage drop	<4.5V	<4.5V		<4.5V	<4.5V
Switching frequency	300Hz	150Hz		300Hz	150Hz
Response time	0.5ms/0.5ms	1ms/1ms		0.5ms/0.5ms	1ms/1ms
Rated insulation voltage	75VDC			75VDC	
Operating temperature	-25°C ... +70°C			-25°C ... +70°C	
Storage temperature	-40°C ... +80°C			-40°C ... +80°C	
Temperature drift	<10%			<10%	
Power indicator	No			No	
Function indicator	Yellow LED			Yellow LED	
Reverse polarity protection	Yes			Yes	
Short-circuit protection	Yes			Yes	
Overload trip point	220mA			220mA	
Correction factors	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4			Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4	
Mechanical Data					
Sensing surface material	PBT			PBT	
Protection	IP67			IP67	
Shock rating	Shock, half-sinus, 30gn, 11ms			Shock, half-sinus, 30gn, 11ms	
Vibration rating	55Hz, 1mm ampl., 3x30min.			55Hz, 1mm ampl., 3x30min.	
EMC	IEC 60947-5-2			IEC 60947-5-2	
Accessory	2 nuts			2 nuts	
Connection	2m PVC cable (Ø5.8 2x0.5mm ²)			2m PVC cable (Ø5.8 2x0.5mm ²)	
Weight	Approx. 179g			Approx. 187g	

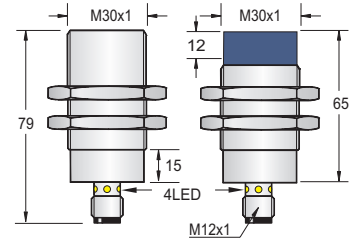


Features

- M30mm diameter
- 10-60VDC operating voltage
- Sn=10mm, shielded
15mm, non-shielded
- Nickel plated brass housing case
PBT housing case
- Short-circuit protection
Overload protection
Reverse polarity protection
- 2 Wire Output
- NO or NC Function
- M12 connector version
- IP67 Protection



(Unit: mm)



(Unit: mm)



Connection		2m Cable		2m Cable	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Brass Case	2 Wire-NO	L6AC30X10H	L6AD30X15H	L6AE30X10H	L6AF30X15H
	2 Wire-NC	L6AC30Y10H	L6AD30Y15H	L6AE30Y10H	L6AF30Y15H
PBT Case	2 Wire-NO	L6MC30X10H	L6MD30X15H	L6ME30X10H	L6MF30X15H
	2 Wire-NC	L6MC30Y10H	L6MD30Y15H	L6ME30Y10H	L6MF30Y15H
General Data					
Housing size	M30mm		M30mm		
Installation type	Shielded	Non-shielded	Shielded	Non-shielded	
Sensing distance(Sn: mm)	10mm	15mm	10mm	15mm	
Standard sensing object	Steel 30x30x1mm		Steel 45x45x1mm		
Effective sensing distance (Sr: mm)	90 ... 110% of Sn		90 ... 110% of Sn		
Assured operating distance(Sa: mm)	0 ... 80% of Sn		0 ... 80% of Sn		
Hysteresis	<15%		<15%		
Housing material	Nickel plated brass/PBT Resin		Nickel plated brass/PBT Resin		
Operating voltage	10 ... 60VDC		10 ... 60VDC		
Electrical Data					
Rated operating voltage	24VDC		24VDC		
Repeated accuracy	±10%		±10%		
Ripple	<10%		<10%		
No load current	<10mA		<10mA		
Max. Load current	200mA		200mA		
Leakage current	<0.01mA		<0.01mA		
Voltage drop	<4.5V	<4.5V	<4.5V	<4.5V	
Switching frequency	300Hz	150Hz	300Hz	150Hz	
Response time	0.5ms/0.5ms	1ms/1ms	0.5ms/0.5ms	1ms/1ms	
Rated insulation voltage	75VDC		75VDC		
Operating temperature	-25°C ... +70°C		-25°C ... +70°C		
Storage temperature	-40°C ... +80°C		-40°C ... +80°C		
Temperature drift	<10%		<10%		
Power indicator	No		No		
Function indicator	Yellow LED		Yellow LED		
Reverse polarity protection	Yes		Yes		
Short-circuit protection	Yes		Yes		
Overload trip point	220mA		220mA		
Correction factors	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4		
Mechanical Data					
Sensing surface material	PBT		PBT		
Protection	IP67		IP67		
Shock rating	Shock, half-sinus, 30gn, 11ms		Shock, half-sinus, 30gn, 11ms		
Vibration rating	55Hz, 1mm ampl., 3x30min.		55Hz, 1mm ampl., 3x30min.		
EMC	IEC 60947-5-2		IEC 60947-5-2		
Accessory	2 nuts		2 nuts		
Connection	4 Pin M12 connector		4 Pin M12 connector		
Weight	Approx. 111g		Approx. 122g		



Features <ul style="list-style-type: none"> ▪ Ø34mm diameter ▪ 10-60VDC operating voltage ▪ Sn=15mm, shielded 25mm, non-shielded ▪ PBT housing case ▪ Short-circuit protection ▪ Overload protection ▪ Reverse polarity protection ▪ 2 Wire Output ▪ NO, NC Function ▪ Cable version M12 connector version ▪ IP67 Protection 				
	(Unit: mm)		(Unit: mm)	
Connection	2m Cable		3 Pin M12 Connector	
Mounting	Shielded	Non-shielded	Shielded	Non-shielded
Brass Case	2 Wire-NO 2 Wire-NC			
PBT Case	2 Wire-NO 2 Wire-NC		L6NC34X15A L6ND34X25A L6NC34Y15A L6ND34Y25A	
			L6NC34X15H L6ND34X25H L6NC34Y15H L6ND34Y25H	
General Data				
Housing size	Ø34mm		Ø34mm	
Installation type	Shielded	Non-shielded	Shielded	Non-shielded
Sensing distance(Sn: mm)	15mm	25mm	15mm	25mm
Standard sensing object	Steel 45x45x1mm	Steel 75x75x1mm	Steel 45x45x1mm	Steel 75x75x1mm
Effective sensing distance (Sr: mm)	90 ... 110% of Sn		90 ... 110% of Sn	
Assured operating distance(Sa: mm)	0 ... 80% of Sn		0 ... 80% of Sn	
Hysteresis	<15%		<15%	
Housing material	PBT Resin		PBT Resin	
Operating voltage	10 ... 60VDC		10 ... 60VDC	
Electrical Data				
Rated operating voltage	24VDC		24VDC	
Repeated accuracy	±10%		±10%	
Ripple	<10%		<10%	
No load current	<10mA		<10mA	
Max. Load current	200mA		200mA	
Leakage current	<0.01mA		<0.01mA	
Voltage drop	<4.5V	<4.5V	<4.5V	<4.5V
Switching frequency	150Hz	100Hz	150Hz	100Hz
Response time	1ms/1ms	1ms/1ms	1ms/1ms	1ms/1ms
Rated insulation voltage	75VDC		75VDC	
Operating temperature	-25°C ... +70°C		-25°C ... +70°C	
Storage temperature	-40°C ... +80°C		-40°C ... +80°C	
Temperature drift	<10%		<10%	
Power indicator	No		No	
Function indicator	Yellow LED		Yellow LED	
Reverse polarity protection	Yes		Yes	
Short-circuit protection	Yes		Yes	
Overload trip point	220mA		220mA	
Correction factors	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4	
Mechanical Data				
Sensing surface material	PBT		PBT	
Protection	IP67		IP67	
Shock rating	Shock, half-sinus, 30gn, 11ms		Shock, half-sinus, 30gn, 11ms	
Vibration rating	55Hz, 1mm ampl., 3x30min.		55Hz, 1mm ampl., 3x30min.	
EMC	IEC 60947-5-2		IEC 60947-5-2	
Accessory	Brackets		Brackets	
Connection	2m PVC cable (Ø5.8 2x0.5mm ²)		2m PVC cable (Ø5.8 2x0.5mm ²)	
Weight	Approx. 251g		Approx. 251g	



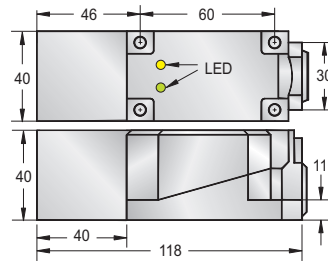
DC 2 Wire Inductive Proximity Sensors

Features <ul style="list-style-type: none"> ▪ Q18x18mm diameter ▪ 10-60VDC operating voltage ▪ Sn=5mm, non-shielded ▪ PBT Resin housing case ▪ Short-circuit protection ▪ Overload protection ▪ Reverse polarity protection ▪ 2 Wire Output ▪ NO,NC Function ▪ Cable version ▪ IP67 Protection 		<p style="text-align: right;">(Unit: mm)</p>		
Connection		2m Cable		
Mounting		Shielded	Non-shielded	
Brass Case	2 Wire-NO			
	2 Wire-NC			
PBT Case	2 Wire-NO		L6EF18X05A	
	2 Wire-NC		L6EF18Y05A	
General Data				
Housing size	Q18x18mm			
Installation type		Non-shielded		
Sensing distance(Sn: mm)		5mm		
Standard sensing object		Steel 45x45x1mm		
Effective sensing distance (Sr: mm)	90 ... 110% of Sn			
Assured operating distance(Sa: mm)	0 ... 80% of Sn			
Hysteresis	<15%			
Housing material	PBT Resin			
Operating voltage	10 ... 60VDC			
Electrical Data				
Rated operating voltage	24VDC			
Repeated accuracy	±10%			
Ripple	<10%			
No load current	<10mA			
Max. Load current	200mA			
Leakage current	<0.01mA			
Voltage drop		<4.5V		
Switching frequency		500Hz		
Response time		0.5ms/0.5ms		
Rated insulation voltage	75VDC			
Operating temperature	-25°C ... +70°C			
Storage temperature	-40°C ... +80°C			
Temperature drift	<10%			
Power indicator	No			
Function indicator	Yellow LED			
Reverse polarity protection	Yes			
Short-circuit protection	Yes			
Overload trip point	220mA			
Correction factors	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4			
Mechanical Data				
Sensing surface material	PBT			
Protection	IP67			
Shock rating	Shock, half-sinus, 30gn, 11ms			
Vibration rating	55Hz, 1mm ampl., 3x30min.			
EMC	IEC 60947-5-2			
Accessory	/			
Connection	2m PVC cable (Ø4 2x0.34mm ²)			
Weight	Approx. 58g			



Features

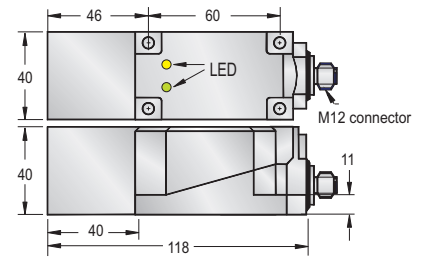
- Q40x40mm diameter
- 10-60VDC operating voltage
- Sn=20mm, shielded
30mm, non-shielded
- PBT Resin housing case
- Short-circuit protection
Overload protection
Reverse polarity protection
- 2 Wire Output
- NO,NC Function
- PG connector version
4 Pin M12 connector version
- IP67 Protection



(Unit: mm)



(Unit: mm)



(Unit: mm)



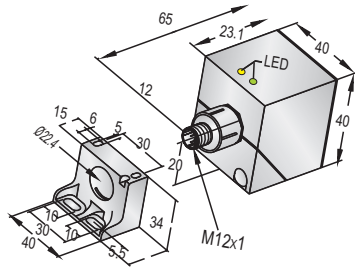
(Unit: mm)

Connection		Cable Terminal with PG Connector		4 Pin M12 Connector	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Steel Case	2 Wire-NO				
	2 Wire-NC				
PBT Case	2 Wire-NO	L6EE40X20T	L6EF40X30T	L6EE40X20H	L6EF40X30H
	2 Wire-NC	L6EE40Y20T	L6EF40Y30T	L6EE40Y20H	L6EF40Y30H
General Data					
Housing size	Q40x40mm				Q40x40mm
Installation type	Shielded		Non-shielded		Shielded Non-shielded
Sensing distance(Sn: mm)	20mm		30mm		20mm 30mm
Standard sensing object	Steel 60x60x1mm		Steel 90x90x1mm		Steel 60x60x1mm Steel 90x90x1mm
Effective sensing distance (Sr: mm)	90 ... 110% of Sn				90 ... 110% of Sn
Assured operating distance(Sa: mm)	0 ... 80% of Sn				0 ... 80% of Sn
Hysteresis	<15%				<15%
Housing material	PBT Resin				PBT Resin
Operating voltage	10 ... 60VDC				10 ... 60VDC
Electrical Data					
Rated operating voltage	24VDC				24VDC
Repeated accuracy	±10%				±10%
Ripple	<10%				<10%
No load current	<10mA				<10mA
Max. Load current	200mA				200mA
Leakage current	<0.01mA				<0.01mA
Voltage drop	<4.5V		<4.5V		<4.5V <4.5V
Switching frequency	300Hz		100Hz		300Hz 100Hz
Response time	0.5ms/0.5ms		1ms/1ms		0.5ms/0.5ms 1ms/1ms
Rated insulation voltage	75VDC				75VDC
Operating temperature	-25°C ... +70°C				-25°C ... +70°C
Storage temperature	-40°C ... +80°C				-40°C ... +80°C
Temperature drift	<10%				<10%
Power indicator	Green LED				Green LED
Function indicator	Yellow LED				Yellow LED
Reverse polarity protection	Yes				Yes
Short-circuit protection	Yes				Yes
Overload trip point	220mA				220mA
Correction factors	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/copper approx. 0.4				Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/copper approx. 0.4
Mechanical Data					
Sensing surface material	PBT				PBT
Protection	IP67				IP67
Shock rating	Shock, half-sinus, 30gn, 11ms				Shock, half-sinus, 30gn, 11ms
Vibration rating	55Hz, 1mm ampl., 3x30min.				55Hz, 1mm ampl., 3x30min.
EMC	IEC 60947-5-2				IEC 60947-5-2
Accessory	/				/
Connection	Cable terminal with PG connector				4 Pin M12 connector
Weight	Approx. 250g				Approx. 262g



Features

- Q40x40mm diameter
- 10-60VDC operating voltage
- Sn=20mm, shielded
30mm, non-shielded
- PBT Resin housing case
- Short-circuit protection
- Overload protection
- Reverse polarity protection
- 2 Wire Output
- NO,NC Function
- 4 Pin M12 connector version
- IP67 Protection



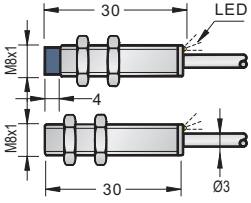


(Unit: mm)



Connection		4 Pin M12 Connector			
Mounting		Shielded	Non-shielded		
Brass Case	2 Wire-NO				
	2 Wire-NC				
PBT Case	2 Wire-NO	L6EC40X20H	L6ED40X30H		
	2 Wire-NC	L6EC40Y20H	L6ED40Y30H		
General Data					
Housing size	Q40x40mm				
Installation type	Shielded	Non-shielded			
Sensing distance(Sn: mm)	20mm	30mm			
Standard sensing object	Steel 60x60x1mm	Steel 90x90x1mm			
Effective sensing distance (Sr: mm)	90 ... 110% of Sn				
Assured operating distance(Sa: mm)	0 ... 80% of Sn				
Hysteresis	<15%				
Housing material	PBT Resin				
Operating voltage	10 ... 60VDC				
Electrical Data					
Rated operating voltage	24VDC				
Repeated accuracy	±10%				
Ripple	<10%				
No load current	<10mA				
Max. Load current	200mA				
Leakage current	<0.01mA				
Voltage drop	<4.5V	<4.5V			
Switching frequency	300Hz	100Hz			
Response time	0.5ms/0.5ms	1ms/1ms			
Rated insulation voltage	75VDC				
Operating temperature	-25°C ... +70°C				
Storage temperature	-40°C ... +80°C				
Temperature drift	<10%				
Power indicator	Green LED				
Function indicator	Yellow LED				
Reverse polarity protection	Yes				
Short-circuit protection	Yes				
Overload trip point	220mA				
Correction factors	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4				
Mechanical Data					
Sensing surface material	PBT				
Protection	IP67				
Shock rating	Shock, half-sinus, 30gn, 11ms				
Vibration rating	55Hz, 1mm ampl., 3x30min.				
EMC	IEC 60947-5-2				
Accessory	/				
Connection	4 Pin M12 connector				
Weight	Approx. 170g				



DC 2 Wire Inductive Proximity Sensors

Features <ul style="list-style-type: none"> ▪ M8mm diameter ▪ 10-60VDC operating voltage ▪ Sn=2mm, shielded ▪ Stainless steel housing case ▪ Short-circuit protection ▪ Overload protection ▪ Reverse polarity protection ▪ 2 Wire Output ▪ NO,NC Function ▪ Cable version ▪ IP67 Protection 		 <p style="text-align: right;">(Unit: mm)</p>		
				
				
Connection		2m Cable		
Mounting		Shielded	Non-shielded	
Steel Case	2 Wire-NO	L6CC08X02A		
	2 Wire-NC	L6CC08Y02A		
PBT Case	2 Wire-NO	L6MC08X02A		
	2 Wire-NC	L6MC08Y02A		
General Data				
Housing size	M8mm			
Installation type	Shielded			
Sensing distance(Sn: mm)	2mm			
Standard sensing object	Steel 8x8x1mm			
Effective sensing distance (Sr: mm)	90 ... 110% of Sn			
Assured operating distance(Sa: mm)	0 ... 80% of Sn			
Hysteresis	<15%			
Housing material	Stainless steel			
Operating voltage	10 ... 60VDC			
Electrical Data				
Rated operating voltage	24VDC			
Repeated accuracy	±10%			
Ripple	<10%			
No load current	<10mA			
Max. Load current	200mA			
Leakage current	<0.01mA			
Voltage drop	<4.5V			
Switching frequency	2000Hz			
Response time	0.1ms/0.1ms			
Rated insulation voltage	75VDC			
Operating temperature	-25°C ... +70°C			
Storage temperature	-40°C ... +80°C			
Temperature drift	<10%			
Power indicator	No			
Function indicator	Yellow LED			
Reverse polarity protection	Yes			
Short-circuit protection	Yes			
Overload trip point	220mA			
Correction factors	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4			
Mechanical Data				
Sensing surface material	POM			
Protection	IP67			
Shock rating	Shock, half-sinus, 30gn, 11ms			
Vibration rating	55Hz, 1mm ampl., 3x30min.			
EMC	IEC 60947-5-2			
Accessory	2 nuts			
Connection	2m PVC cable (Ø3 2x0.15mm ²)			
Weight	Approx. 34g			

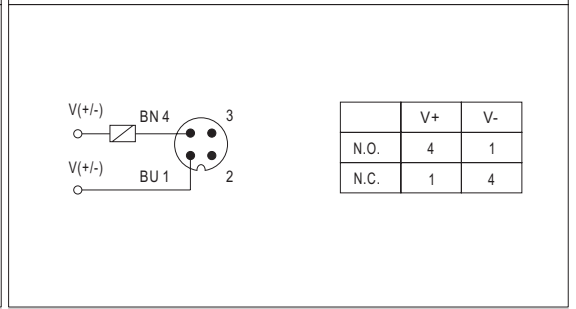
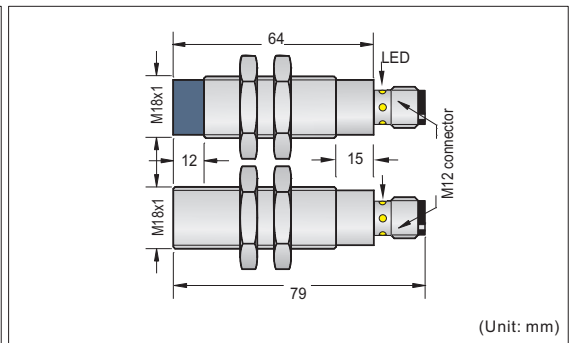
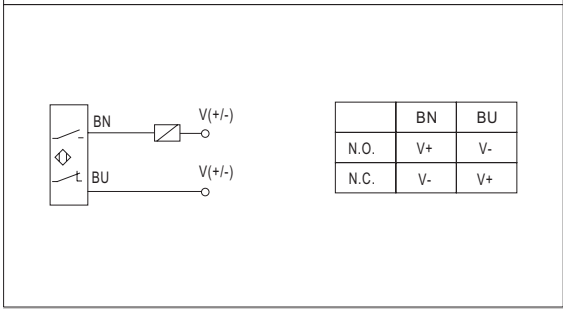
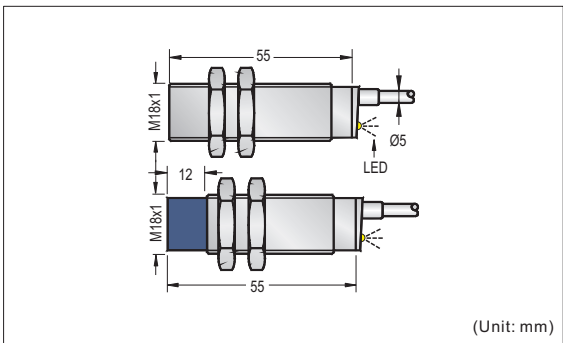


DC 2 Wire Inductive Proximity Sensors

Features

- M18mm diameter
- 10-55VDC operating voltage
- Sn=5mm, shielded
8mm, non-shielded
- Brass housing case
PBT housing case
- Short-circuit protection
Overload protection
Reverse polarity protection
- 2 Wire Output
- NO,NC Function
- Cable version
- IP67 Protection

CE



Connection		2m Cable		2m Cable	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Brass Case	2 Wire-NO/NC	L6AE18R05A	L6AF18R08A	L6AE18R05H	L6AF18R08H
PBT Case	2 Wire-NO/NC	L6ME18R05A	L6MF18R08A	L6ME18R05H	L6MF18R08H

General Data		M18mm		M18mm	
Installation type		Shielded	Non-shielded	Shielded	Non-shielded
Sensing distance(Sn: mm)		5mm	8mm	5mm	8mm
Standard sensing object		Steel 18x18x1mm	Steel 24x24x1mm	Steel 18x18x1mm	Steel 24x24x1mm
Effective sensing distance (Sr: mm)		90 ... 110% of Sn		90 ... 110% of Sn	
Assured operating distance(Sa: mm)		0 ... 80% of Sn		0 ... 80% of Sn	
Hysteresis		<15%		<15%	
Housing material		Nickel plated brass/PBT Resin		Nickel plated brass/PBT Resin	
Operating voltage		10 ... 55VDC		10 ... 55VDC	

Electrical Data					
Rated operating voltage		24VDC		24VDC	
Repeated accuracy		±10%		±10%	
Ripple		<10%		<10%	
No load current		<4mA		<4mA	
Max. Load current		200mA		200mA	
Leakage current		<0.8mA		<0.8mA	
Voltage drop		<5.5V	<5.5V	<5.5V	<5.5V
Switching frequency		1000Hz	1000Hz	1000Hz	1000Hz
Response time		0.2ms/0.2ms	0.2ms/0.2ms	0.2ms/0.2ms	0.2ms/0.2ms
Rated insulation voltage		75VDC		75VDC	
Operating temperature		-25°C ... +70°C		-25°C ... +70°C	
Storage temperature		-40°C ... +80°C		-40°C ... +80°C	
Temperature drift		<10%		<10%	
Power indicator		No		No	
Function indicator		Yellow LED		Yellow LED	
Reverse polarity protection		Yes		Yes	
Short-circuit protection		Yes		Yes	
Overload trip point		220mA		220mA	
Correction factors		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4	

Mechanical Data					
Sensing surface material		PBT		PBT	
Protection		IP67		IP67	
Shock rating		Shock, half-sinus, 30gn, 11ms		Shock, half-sinus, 30gn, 11ms	
Vibration rating		55Hz, 1mm ampl., 3x30min.		55Hz, 1mm ampl., 3x30min.	
EMC		IEC 60947-5-2		IEC 60947-5-2	
Accessory		2 nuts		2 nuts	
Connection		2m PVC cable (Ø5 2x0.5mm ²)		4 Pin M12 Connector	
Weight		Approx. 134g		Approx. 70g	