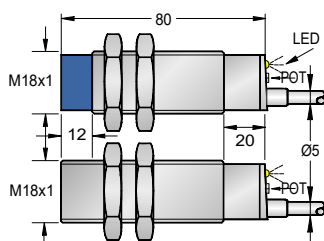
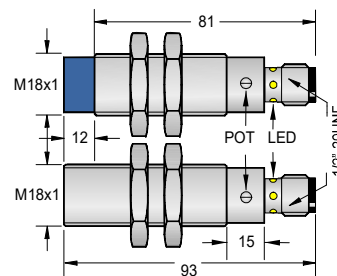


Features

- M18mm diameter
- 20-250VAC operating voltage
- Sn=2 ... 8mm, shielded
2 ... 15mm, non-shielded
- Brass housing case
PBT housing case
- AC Output
- NO, NC Function
- Cable version
3 Pin M12 Connector version
- IP67 Protection



(Unit: mm)



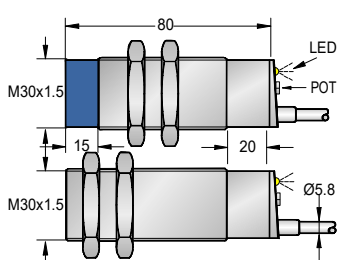
(Unit: mm)



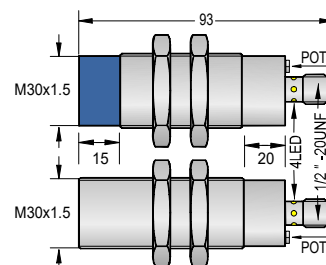
Connection		2m Cable		3 Pin M12 Connector	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Brass Case	AC-NO	C8AE18P08A	C8AF18P15A	C8AE18P08L	C8AF18P15L
	AC-NC	C8AE18Q08A	C8AF18Q15A	C8AE18Q08L	C8AF18Q15L
PBT Case	AC-NO	C8ME18P08A	C8MF18P15A	C8ME18P08L	C8MF18P15L
	AC-NC	C8ME18Q08A	C8MF18Q15A	C8ME18Q08L	C8MF18Q15L
General Data					
Housing size		M18mm		M18mm	
Installation type		Shielded	Non-shielded	Shielded	Non-shielded
Sensing distance(Sn: mm)		2...8mm adjustable	2...15mm adjustable	2...8mm adjustable	2...15mm adjustable
Standard sensing object		Steel 24x24x1mm	Steel 45x45x1mm	Steel 24x24x1mm	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		20 ... 250VAC		20 ... 250VAC	
Electrical Data					
Rated operating voltage		110VAC		110VAC	
Repeated accuracy		±10%		±10%	
Surge current		5A(20ms)		5A(20ms)	
No load current		<2.5mA		<2.5mA	
Max. Load current		300mA		300mA	
Leakage current		<2.5mA		<2.5mA	
Voltage drop		<9VAC at 300mA		<9VAC at 300mA	
Switching frequency		<25Hz		<25Hz	
Response time		10ms/10ms		10ms/10ms	
Rated insulation voltage		250VAC		250VAC	
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		No		No	
Short-circuit protection		No		No	
Min. load current		5mA		5mA	
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 3x0.5mm ² /2x0.5mm ²)		Micro-style 3 Pin 1/2" connector	
Weight		Approx. 115g		Approx. 94g	

Features

- M30mm diameter
- 20-250VAC operating voltage
- Sn=2 ... 20mm, shielded
2 ... 30mm, non-shielded
- Brass housing case
PBT housing case
- AC Output
- NO, NC Function
- Cable version
3 Pin 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	AC-NO	C8AE30P20A	C8AF30P30A	C8AE30P20L	C8AF30P30L
	AC-NC	C8AE30Q20A	C8AF30Q30A	C8AE30Q20L	C8AF30Q30L
PBT Case	AC-NO	C8ME30P20A	C8MF30P30A	C8ME30P20L	C8MF30P30L
	AC-NC	C8ME30Q20A	C8MF30Q30A	C8ME30Q20L	C8MF30Q30L

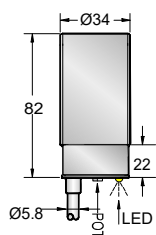
General Data		M30mm		M30mm	
Housing size		M30mm		M30mm	
Installation type		Shielded	Non-shielded	Shielded	Non-shielded
Sensing distance(Sn: mm)		2...20mm adjustable	2...30mm adjustable	2...20mm adjustable	2...30mm adjustable
Standard sensing object		Steel 60x60x1mm	Steel 90x90x1mm	Steel 60x60x1mm	Steel 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		Nickel plated brass/PBT Resin		Nickel plated brass/PBT Resin	
Operating voltage		20 ... 250VAC		20 ... 250VAC	

Electrical Data		2m Cable		3 Pin M12 Connector	
Rated operating voltage		110VAC		110VAC	
Repeated accuracy		±10%		±10%	
Surge current		5A(20ms)		5A(20ms)	
No load current		<2.5mA		<2.5mA	
Max. Load current		300mA		300mA	
Leakage current		<2.5mA		<2.5mA	
Voltage drop		<9VAC at 300mA		<9VAC at 300mA	
Switching frequency		<25Hz		<25Hz	
Response time		10ms/10ms		10ms/10ms	
Rated insulation voltage		250VAC		250VAC	
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		No		No	
Short-circuit protection		No		No	
Min. load current		5mA		5mA	
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	

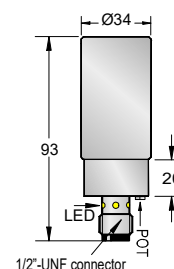
Mechanical Data		2m Cable		3 Pin M12 Connector	
Sensing surface material		PBT		PBT	
Protection		IP67		IP67	
Shock rating		Shock, half-sinus, 30gn, 11ms		Shock, half-sinus, 30gn, 11ms	
Vibration rating		55Hz, 1mm ampl., 3x30min.		55Hz, 1mm ampl., 3x30min.	
EMC		IEC 60947-5-2		IEC 60947-5-2	
Accessory		2 nuts		2 nuts	
Connection		2m PVC cable (Ø5.8 3x0.5mm ² /2x0.5mm ²)		Micro-style 3 Pin M12 1/2" connector	
Weight		Approx. 231g		Approx. 137g	

Features

- Ø34mm diameter
- 20-250VAC operating voltage
- Sn=2 ... 25mm, shielded
2 ... 35mm, non-shielded
- PBT housing case
- AC Output
- NO, NC Function
- Cable version
3 Pin 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	AC-NO				
	AC-NC				
PBT Case	AC-NO	C8NE34P25A	C8NF34P35A	C8NE34P25L	C8NF34P35L
	AC-NC	C8NE34Q25A	C8NF34Q35A	C8NE34Q25L	C8NF34Q35L

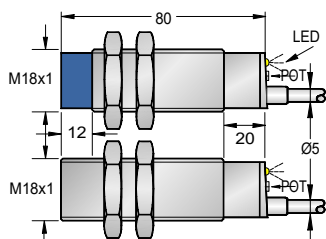
General Data					
Housing size		Ø34mm		Ø34mm	
Installation type		Shielded	Non-shielded	Shielded	Non-shielded
Sensing distance(Sn: mm)		2...25mm adjustable	2...35mm adjustable	2...25mm adjustable	2...35mm adjustable
Standard sensing object		Steel 75x75x1mm	Steel 105x105x1mm	Steel 75x75x1mm	Steel 105x105x1mm
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		20 ... 250VAC		20 ... 250VAC	

Electrical Data		
Rated operating voltage	110VAC	110VAC
Repeated accuracy	±10%	±10%
Surge current	5A(20ms)	5A(20ms)
No load current	<2.5mA	<2.5mA
Max. Load current	300mA	300mA
Leakage current	<2.5mA	<2.5mA
Voltage drop	<9VAC at 300mA	<9VAC at 300mA
Switching frequency	<25Hz	<25Hz
Response time	10ms/10ms	10ms/10ms
Rated insulation voltage	250VAC	250VAC
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	No	No
Short-circuit protection	No	No
Min. load current	5mA	5mA
Correction factors	Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4	

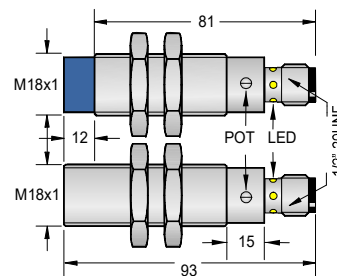
Mechanical Data		
Sensing surface material	PBT	PBT
Protection	IP67	IP67
Shock rating	Shock, half-sinus, 30gn, 11ms	Shock, half-sinus, 30gn, 11ms
Vibration rating	55Hz, 1mm ampl., 3x30min.	55Hz, 1mm ampl., 3x30min.
EMC	IEC 60947-5-2	IEC 60947-5-2
Accessory	Bracket and nuts	Bracket and nuts
Connection	2m PVC cable (Ø5.8 2x0.5mm ²)	Micro-style 3 Pin M12 ½" connector
Weight	Approx. 250g	Approx. 162g

Features

- M18mm diameter
- 20-250VAC/DC operating voltage
- Sn=2 ... 8mm, shielded
2 ... 15mm, non-shielded
- Brass housing case
PBT housing case
- AC/DC Output
- NO, NC Function
- Cable version
3 Pin 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	AC/DC-NO	C9AE18S08A	C9AF18S15A	C9AE18S08L	C9AF18S15L
	AC/DC-NC	C9AE18T08A	C9AF18T15A	C9AE18T08L	C9AF18T15L
PBT Case	AC/DC-NO	C9ME18S08A	C9MF18S15A	C9ME18S08L	C9MF18S15L
	AC/DC-NC	C9ME18T08A	C9MF18T15A	C9ME18T08L	C9MF18T15L
General Data					
Housing size		M18mm		M18mm	
Installation type		Shielded	Non-shielded	Shielded	Non-shielded
Sensing distance(Sn: mm)		2...8mm adjustable	2...15mm adjustable	2...8mm adjustable	2...15mm adjustable
Standard sensing object		Steel 24x24x1mm	Steel 45x45x1mm	Steel 24x24x1mm	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		20 ... 250VAC/DC		20 ... 250VAC/DC	
Electrical Data					
Rated operating voltage		110VAC		110VAC	
Repeated accuracy		±10%		±10%	
Surge current		5A(20ms)		5A(20ms)	
No load current		<2.5mA		<2.5mA	
Max. Load current		300mA		300mA	
Leakage current		<2.5mA		<2.5mA	
Voltage drop		<10VAC, <8VDC		<10VAC, <8VDC	
Switching frequency		<25Hz/AC, <40Hz/DC		<25Hz/AC, <40Hz/DC	
Response time		10ms/10ms		10ms/10ms	
Rated insulation voltage		250VAC		250VAC	
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		No		No	
Short-circuit protection		No		No	
Min. load current		5mA		5mA	
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 3x0.5mm ² /2x0.5mm ²)		Micro-style 3 Pin 1/2" connector	
Weight		Approx. 115g		Approx. 94g	