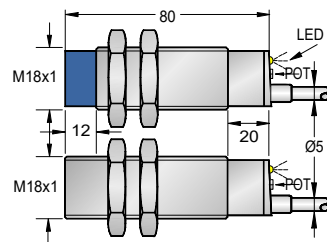


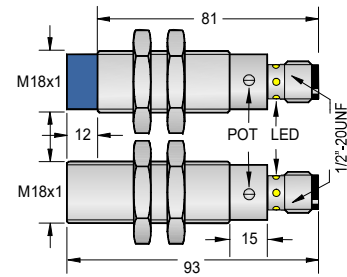
Features

- 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

CE



(Unit: mm)



(Unit: mm)

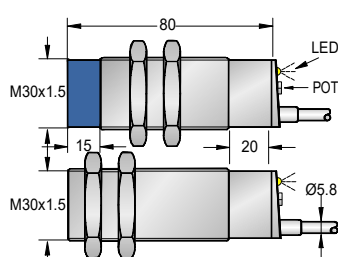


Connection		2m Cable		3 Pin M12 Connector	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Brass Case	AC/DC-NO	C9AE18S08A	C9AF18S15A	C9AE18S08L	C9AF18S15L
	AC/DC-NC	C9AE18T08A	C9AF18T15A	C9AE18T08L	C9AF18T15L
PBT Case	AC/DC-NO	C9ME18S08A	C9MF18S15A	C9ME18S08L	C9MF18S15L
	AC/DC-NC	C9ME18T08A	C9MF18T15A	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 3x0.5mm²/2x0.5mm²)		Micro-style 3 Pin ½" connector	
Weight		Approx. 115g		Approx. 94g	

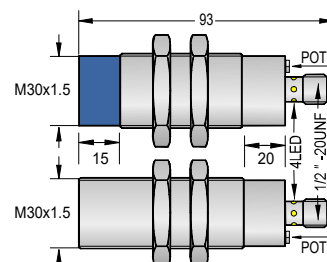
Features

- M30mm diameter
- 20-250VAC/DC operating voltage
- Sn=2 ... 20mm, shielded
- 2 ... 30mm, non-shielded
- Brass housing case
- PBT housing case
- AC/DC Output
- NO, NC Function
- Cable version
- 3 Pin M12 Connector version
- IP67 Protection

CE



(Unit: mm)



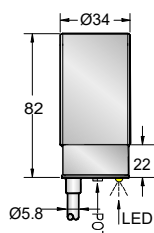
(Unit: mm)



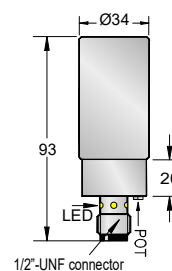
Connection		2m Cable		3 Pin M12 Connector	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
Brass Case	AC/DC-NO	C9AE30S20A	C9AF30S30A	C9AE30S20L	C9AF30S30L
	AC/DC-NC	C9AE30T20A	C9AF30T30A	C9AE30T20L	C9AF30T30L
PBT Case	AC/DC-NO	C9ME30S20A	C9MF30S30A	C9ME30S20L	C9MF30S30L
	AC/DC-NC	C9ME30T20A	C9MF30T30A	C9ME30T20L	C9MF30T30L
General Data					
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/DC		20 ... 250VAC/DC	
Electrical Data					
Rated operating voltage		110VAC		110VAC	
Repeated accuracy		±10%		±10%	
Surge current		2.2A(20ms)		2.2A(20ms)	
No load current		<2.5mA		<2.5mA	
Max. Load current		200mA		200mA	
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 (Ø5.8 3x0.5mm²/2x0.5mm²)		Micro-style 3 Pin ½" connector	
Weight		Approx. 231g		Approx. 137g	

Features

- Ø34mm diameter
- 20-250VAC/DC operating voltage
- Sn=2 ... 25mm, shielded
2 ... 35mm, non-shielded
- 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				
	AC/DC-NC				
PBT Case	AC/DC-NO	C9NE34S25A	C9NF34S35A	C9NE34S25L	C9NF34S35L
	AC/DC-NC	C9NE34T25A	C9NF34T35A	C9NE34T25L	C9NF34T35L
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/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		Bracket and nuts		Bracket and nuts	
Connection		2m PVC cable (Ø5.8 2x0.5mm²)		Micro-style 3 Pin ½" connector	
Weight		Approx. 250g		Approx. 162g	