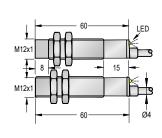
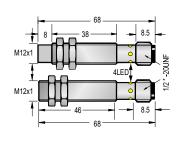


(Unit: mm)

- Features M12mm diameter
- Sn=2mm,shielded 4mm,non-shielded
- 20-250VAC operating voltage
 Stainless steel housing case
 Stainless steel active sensing face
- AC Output
- NO,NC Function
- Cable version
 3 Pin M12 connector version
- IP67 Protection





(Unit: mm)



Connection		2m Cable		3 Pin M12 Connector	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
	AC-NO	M8CE12P02A	M8CF12P04A	M8CE12P02L	M8CF12P04L
Steel Case	AC-NC	M8CE12Q02A	M8CF12Q04A	M8CE12Q02L	M8CF12Q04L

M12mm		M12mm	
Shielded Non-shielded		Shielded	Non-shielded
2mm	4mm	2mm	4mm
Steel 12x12x1mm	Steel 12x12x1mm	Steel 12x12x1mm	Steel 12x12x1mm
90 110	0% of Sn	90 110% of Sn	
0 80%	% of Sn	0 80% of Sn	
<15%		<15%	
Housing material Stainless steel		Stainless steel	
Operating voltage 20 250VAC		20	250VAC
	Shielded 2mm Steel 12x12x1mm 90 110 0 809 <15	Shielded Non-shielded 2mm 4mm Steel 12x12x1mm Steel 12x12x1mm 90 110% of Sn 0 80% of Sn <15%	Shielded Non-shielded Shielded 2mm 4mm 2mm Steel 12x12x1mm Steel 12x12x1mm Steel 12x12x1mm 90 110% of Sn 90 11 0 80% of Sn 0 80 <15%

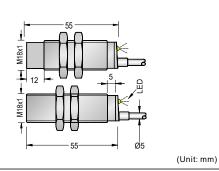
Operating voltage		20 250VAO
Electrical Data		
Rated operating voltage	110VAC	110VAC
Repeated accuracy	±10%	±10%
Surge current	5A(20ms)	5A(20ms)
No load current	<1.8mA	<1.8mA
Max. Load current	400mA	400mA
Leakage current	<1.8mA	<1.8mA
Voltage drop	<8VAC at 400mA	<8VAC at 400mA
Switching frequency	25Hz	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		

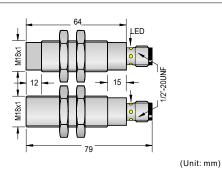
Correction factors Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4		Fe37 steel=1/stainless steel approx. 0.85/brass approx. 0.5/ Al. Approx. 0.45/ copper approx. 0.4
Mechanical Data		
Sensing surface material	Stainless steel	Stainless steel
Protection	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
Accessary	2 nuts	2 nuts
Connection	2m PVC cable (Ø4 3x0.34mm²)	3 Pin M12 1/2"-20UNF connector
Weight	Approx. 77g	Approx. 32g



- Features M18mm diameter
- Sn=5mm,shielded 8mm,non-shielded
- 20-250VAC operating voltage
 Stainless steel housing case
 Stainless steel active sensing face

- AC Output
- NO,NC Function
- Cable version
 3 Pin M12 connector version
- IP67 Protection









Connection		2m Cable		3 Pin M12 Connector	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
041-0	AC-NO	M8CE18P05A	M8CF18P08A	M8CE18P05L	M8CF18P08L
Steel Case	AC-NC	M8CE18Q05A	M8CF18Q08A	M8CE18Q05L	M8CF18Q08L

General Data				
Housing size	lousing size M18mm		M18mm	
Installation type	Shielded Non-shielded		Shielded	Non-shielded
Sensing distance(Sn: mm)	5mm 8mm		5mm	8mm
Standard sensing object	ensing 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 Stainless steel		ss steel	Stainless steel	
Operating voltage	erating voltage 20 250VAC		20	250VAC

Operating voltage 20 250 VAC		20 250VAC
Electrical Data		
Rated operating voltage	110VAC	110VAC
Repeated accuracy	±10%	±10%
Surge current	5A(20ms)	5A(20ms)
No load current	<1.8mA	<1.8mA
Max. Load current	400mA	400mA
Leakage current	<1.8mA	<1.8mA
Voltage drop	<8VAC at 400mA	<8VAC at 400mA
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		
	11	1

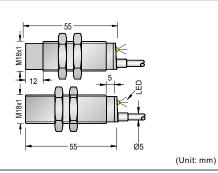
Al. Approx. 0.45/ copper approx. 0.4	Al. Approx. 0.45/ copper approx. 0.4
Stainless steel	Stainless steel
IP67	IP67
Shock, half-sinus, 30gn, 11ms	Shock, half-sinus, 30gn, 11ms
55Hz, 1mm ampl., 3x30min.	55Hz, 1mm ampl., 3x30min.
IEC 60947-5-2	IEC 60947-5-2
2 nuts	2 nuts
2m PVC cable (Ø5 3x0.34mm²)	3 Pin M12 ½"-20UNF connector
Approx. 162g	Approx. 70g
	Stainless steel IP67 Shock, half-sinus, 30gn, 11ms 55Hz, 1mm ampl., 3x30min. IEC 60947-5-2 2 nuts 2m PVC cable (Ø5 3x0.34mm²)

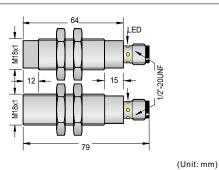


- Features

 M30mm diameter

 Sn=10mm,shielded 15mm,non-shielded
- 20-250VAC operating voltage
 Stainless steel housing case
 Stainless steel active sensing face
- AC Output
- NO,NC Function
- Cable version
 3 Pin M12 connector version
- IP67 Protection









Connection		2m Cable		3 Pin M12 Connector	
Mounting		Shielded	Non-shielded	Shielded	Non-shielded
041-0	AC-NO	M8CE12P02A	M8CF12P04A	M8CE12P02L	M8CF12P04L
Steel Case	AC-NC	M8CE12Q02A	M8CF12Q04A	M8CE12Q02L	M8CF12Q04L
General Data					
Housing size		M30mm		M30mm	
Installation type		Shielded	Non-shielded	Shielded	Non-shielded
Sensing distance(Sn: mm)		10mm	15mm	10mm	15mm

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	Stainle	ss steel	Stainless steel	
Operating voltage	20 250VAC		20 250VAC	
Flectrical Data				

Operating voltage 20 250 VAC		20 250VAC
Electrical Data		
Rated operating voltage	110VAC	110VAC
Repeated accuracy	±10%	±10%
Surge current	5A(20ms)	5A(20ms)
No load current	<1.8mA	<1.8mA
Max. Load current	400mA	400mA
Leakage current	<1.8mA	<1.8mA
Voltage drop	<8VAC at 400mA	<8VAC at 400mA
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

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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	Stainless steel	Stainless steel	
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	
Accessary	2 nuts	2 nuts	
Connection	2m PVC cable (Ø5.8 3x0.5mm²)	3 Pin M12 1/2"-20UNF connector	
Weight	Approx. 248g	Approx. 147g	