

# AC OR AC/DC INDUCTIVE SENSORS WELD FIELD IMMUNE



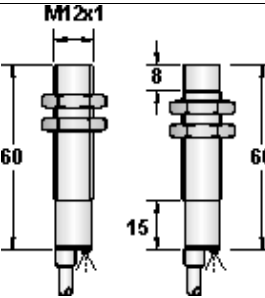
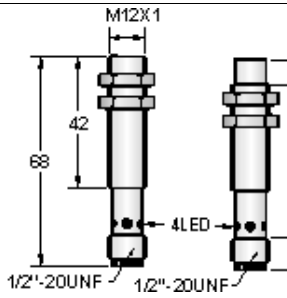


Diameter	Sn (mm)	Shielded/ non-Shielded	Housing Material	Housing Size(mm)	Terminal Version	Power	Page
M12	2mm / 4mm	Shielded/ Non-Shielded	PTFE Coated Brass	M12x60	Cable	20-250VAC	A9-01
M12	2mm / 4mm	Shielded/ Non-Shielded	PTFE Coated Brass	M12x60	Micro-style	20-250VAC	A9-01
M18	5mm / 8mm	Shielded/ Non-Shielded	PTFE Coated Brass	M18x55	Cable	20-250VAC	A9-02
M18	5mm / 8mm	Shielded/ Non-Shielded	PTFE Coated Brass	M18x79	Micro-style	20-250VAC	A9-02
M18	5mm / 8mm	Shielded/ Non-Shielded	PTFE Coated Brass	M18x96	Mini-style	20-250VAC	A9-03
M30	16mm / 25mm	Shielded/ Non-Shielded	PTFE Coated Brass	M30x80	Cable	20-250VAC	A9-04
M30	16mm / 25mm	Shielded/ Non-Shielded	PTFE Coated Brass	M30x40x45	Cable	20-250VAC	A9-04
M30	10mm / 15mm	Shielded/ Non-Shielded	PTFE Coated Brass	M30x79	Micro-style	20-250VAC	A9-05
M30	10mm / 15mm	Shielded/ Non-Shielded	PTFE Coated Brass	M30x96	Mini-style	20-250VAC	A9-05
M12	2mm / 4mm	Shielded/ Non-Shielded	PTFE Coated Brass	M12x60	Cable	20-250VAC/20-250VDC	A9-06
M12	2mm / 4mm	Shielded/ Non-Shielded	PTFE Coated Brass	M12x60	Micro-style	20-250VAC/20-250VDC	A9-06
M18	5mm / 8mm	Shielded/ Non-Shielded	PTFE Coated Brass	M18x80	Cable	20-250VAC/20-250VDC	A9-07
M18	5mm / 8mm	Shielded/ Non-Shielded	PTFE Coated Brass	M18x79	Micro-style	20-250VAC/20-250VDC	A9-07

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M18	5mm / 8mm	Shielded/ Non-Shielded	PTFE Coated Brass	M18x96	Mini-style	20-250VAC/20-250VDC	A9-08
M30	16mm / 25mm	Shielded/ Non-Shielded	PTFE Coated Brass	M30x80	Cable	20-250VAC/20-250VDC	A9-09
M30	16mm / 25mm	Shielded/ Non-Shielded	PTFE Coated Brass	M30x40x45	Cable	20-250VAC/20-250VDC	A9-09
M30	10mm / 15mm	Shielded/ Non-Shielded	PTFE Coated Brass	M30x79	Micro-style	20-250VAC/20-250VDC	A9-10
M30	10mm / 15mm	Shielded/ Non-Shielded	PTFE Coated Brass	M30x96	Mini-style	20-250VAC/20-250VDC	A9-10

# AC INDUCTIVE SENSORS WELD FIELD IMMUNE (M12)

Diameter	M12		M12		
Shielded/non-Shielded	Shielded/ Non-Shielded		Shielded/ Non-Shielded		
Switching Distance Sn mm	2mm / 4mm		2mm / 4mm		
Housing Material	PTFE Coated Brass		PTFE Coated Brass		
With LED/Without LED	With LED		With LED		
Picture					
Operating Voltage	20-250VAC		20-250VAC		
No Load Current	<1.8mA		<1.8mA		
Max. Load Current	400mA		400mA		
Leakge Current	<1.8mA		<1.8mA		
Surge Current	5A(20ms)		5A(20ms)		
Min. Load Current	5mA		5mA		
Voltage Drop	<8VAC AT 400mA		<8VAC AT 400mA		
Switching Frequency	<25HZ		<25HZ		
Response Time	10ms / 10ms		10ms / 10ms		
Switching Hysteresis	<15%(sr)		<15%(sr)		
Repeat Accuracy	<1.0%(sr)		<1.0%(sr)		
Protection Category	IP67		IP67		
Operating Temperature	-25 °C - +70 °C		-25 °C - +70 °C		
Temperature Drift	<10%(sr)		<10%(sr)		
Short Circuit Protection	NO		NO		
Material Active Face	PTFE		PTFE		
DC 3 wire 10-30V NPN N.O.	-		-		
DC 3 wire 10-30V NPN N.C.	-		-		
DC 3 wire 10-30V PNP N.O.	-		-		
DC 3 wire 10-30V PNP N.C.	-		-		
DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)	-		-		
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)	-		-		
DC 2 wire 10-60V N.O.	-		-		
DC 2 wire 10-60V N.C.	-		-		
DC 3 wire 10-55v NPN N.O.	-		-		
DC 3 wire 10-55v NPN N.C.	-		-		
DC 3 wire 10-55v PNP N.O.	-		-		
DC 3 wire 10-55v PNP N.C.	-		-		
AC 2 wire 20-250V N.O.	W7B1-M1202A-O3B2	W7B2-M1204A-O3B2	11	W7B1-M1202A-OMB3 ; W7B2-M1204A-OMB3	51
AC 2 wire 20-250V N.C.	W7B1-M1202A-C3B2	W7B2-M1204A-C3B2	12	W7B1-M1202A-C3MB3 ; W7B2-M1204A-CMB3	51
AC 2 wire 20-250V N.O. or N.C. Changeable .	-				
AC/DC 2 wire 20-250V N.O.	-				
AC/DC 2 wire 20-250V N.C.	-				
AC/DC 2 wire 20-250V N.O. or N.C. Changeable	-				
Wiring diagram number					
Dimensions (unit: mm)					
Cable 2M (PVC)	4φ3x0.34				
Weight	approx.77 g / approx.76 g		approx.14 g		

Subject to modifications without notice

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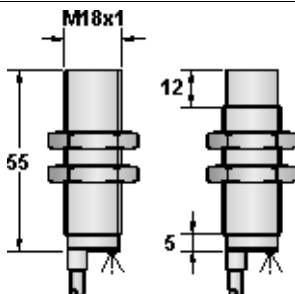
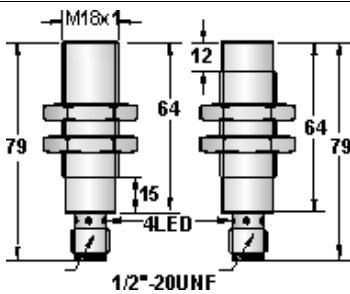
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# AC INDUCTIVE SENSORS WELD FIELD IMMUNE (M18)

Diameter	M18		M18			
Shielded/non-Shielded	Shielded/ Non-Shielded		Shielded/ Non-Shielded			
Switching Distance Sn mm	5mm / 8mm		5mm / 8mm			
Housing Material	PTFE Coated Brass		PTFE Coated Brass			
With LED/Without LED	With LED		With LED			
Picture						
Operating Voltage	20-250VAC		20-250VAC			
No Load Current	<1.8mA		<1.8mA			
Max. Load Current	400mA		400mA			
Leakge Current	<1.8mA		<1.8mA			
Surge Current	5A(20ms)		5A(20ms)			
Min. Load Current	5mA		5mA			
Voltage Drop	<8VAC AT 400mA		<8VAC AT 400mA			
Switching Frequency	<25HZ		<25HZ			
Response Time	10ms / 10ms		10ms / 10ms			
Switching Hysteresis	<15%(sr)		<15%(sr)			
Repeat Accuracy	<1.0%(sr)		<1.0%(sr)			
Protection Category	IP67		IP67			
Operating Temperature	-25 °C - +70 °C		-25 °C - +70 °C			
Temperature Drift	<10%(sr)		<10%(sr)			
Short Circuit Protection	NO		NO			
Material Active Face	PTFE		PTFE			
DC 3 wire 10-30V NPN N.O.	-		-			
DC 3 wire 10-30V NPN N.C.	-		-			
DC 3 wire 10-30V PNP N.O.	-		-			
DC 3 wire 10-30V PNP N.C.	-		-			
DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)	-		-			
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)	-		-			
DC 2 wire 10-60V N.O.	-		-			
DC 2 wire 10-60V N.C.	-		-			
DC 3 wire 10-55v NPN N.O.	-		-			
DC 3 wire 10-55v NPN N.C.	-		-			
DC 3 wire 10-55v PNP N.O.	-		-			
DC 3 wire 10-55v PNP N.C.	-		-			
AC 2 wire 20-250V N.O.	W7B1-M1805A-O3B2	W7B2-M1808A-O3B2	11	W7B1-M1805A-OMB3	W7B2-M1808A-OMB3	51
AC 2 wire 20-250V N.C.	W7B1-M1805A-C3B2	W7B2-M1808A-C3B2	12	W7B1-M1805A-CMB3	W7B2-M1808A-CMB3	51
AC 2 wire 20-250V N.O. or N.C. Changeable .	-			-		
AC/DC 2 wire 20-250V N.O.	-			-		
AC/DC 2 wire 20-250V N.C.	-			-		
AC/DC 2 wire 20-250V N.O. or N.C. Changeable	-			-		
Wiring diagram number						
Dimensions (unit: mm)						
Cable 2M (PVC)	5.8φ3x0.5		-			
Weight	approx.161 g / approx.160g		approx.69 g / approx.68 g			

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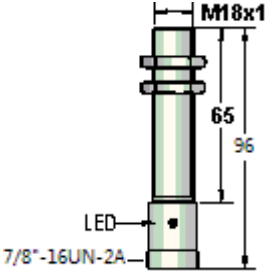
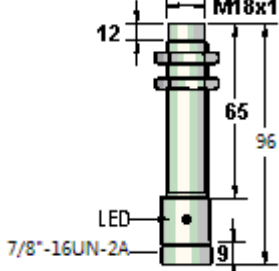
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# AC INDUCTIVE SENSORS WELD FIELD IMMUNE (M18)

Diameter	M18		M18	
Shielded/non-Shielded	Shielded		Non-Shielded	
Switching Distance Sn mm	5mm		8mm	
Housing Material	PTFE Coated Brass		PTFE Coated Brass	
With LED/Without LED	With LED		With LED	
Picture	 		 	
Operating Voltage	20-250VAC		20-250VAC	
No Load Current	<1.8mA		<1.8mA	
Max. Load Current	400mA		400mA	
Leakge Current	<1.8mA		<1.8mA	
Surge Current	5A(20ms)		5A(20ms)	
Min. Load Current	5mA		5mA	
Voltage Drop	<8VAC AT 400mA		<8VAC AT 400mA	
Switching Frequency	<25HZ		<25HZ	
Response Time	10ms / 10ms		10ms / 10ms	
Switching Hysteresis	<15%(sr)		<15%(sr)	
Repeat Accuracy	<1.0%(sr)		<1.0%(sr)	
Protection Category	IP67		IP67	
Operating Temperature	-25 °C - +70 °C		-25 °C - +70 °C	
Temperature Drift	<10%(sr)		<10%(sr)	
Short Circuit Protection	NO		NO	
Material Active Face	PTFE		PTFE	
DC 3 wire 10-30V NPN N.O.	-		-	
DC 3 wire 10-30V NPN N.C.	-		-	
DC 3 wire 10-30V PNP N.O.	-		-	
DC 3 wire 10-30V PNP N.C.	-		-	
DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)	-		-	
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)	-		-	
DC 2 wire 10-60V N.O.	-		-	
DC 2 wire 10-60V N.C.	-		-	
DC 3 wire 10-55v NPN N.O.	-		-	
DC 3 wire 10-55v NPN N.C.	-		-	
DC 3 wire 10-55v PNP N.O.	-		-	
DC 3 wire 10-55v PNP N.C.	-		-	
AC 2 wire 20-250V N.O.	W7B1-M1805A-OZB3	55	W7B2-M1808A-OZB3	55
AC 2 wire 20-250V N.C.	W7B1-M1805A-CZB3	55	W7B2-M1808A-CZB3	55
AC 2 wire 20-250V N.O. or N.C. Changeable .	-		-	
AC/DC 2 wire 20-250V N.O.	-		-	
AC/DC 2 wire 20-250V N.C.	-		-	
AC/DC 2 wire 20-250V N.O. or N.C. Changeable	-		-	
Wiring diagram number	↑		↑	
Dimensions (unit: mm)				
Cable 2M (PVC)	-		-	
Weight	approx. 94g		approx.91 g	

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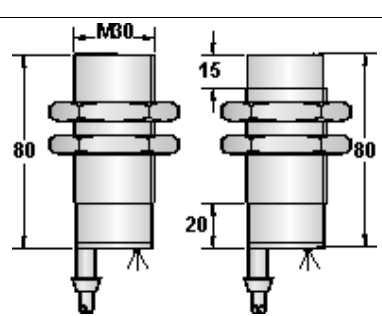
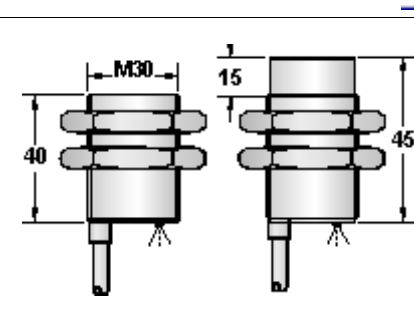
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# AC INDUCTIVE SENSORS WELD FIELD IMMUNE (M30)

Diameter	M30		M30			
Shielded/non-Shielded	Shielded/ Non-Shielded		Shielded/ Non-Shielded			
Switching Distance Sn mm	10mm / 15mm		10mm / 15mm			
Housing Material	PTFE Coated Brass		PTFE Coated Brass			
With LED/Without LED	With LED		With LED			
Picture	 <div style="text-align: center;">CE</div>		 <div style="text-align: center;">CE</div>			
Operating Voltage	20-250VAC		20-250VAC			
No Load Current	<1.8mA		<1.8mA			
Max. Load Current	400mA		400mA			
Leakge Current	<1.8mA		<1.8mA			
Surge Current	5A(20ms)		5A(20ms)			
Min. Load Current	5mA		5mA			
Voltage Drop	<8VAC AT 400mA		<8VAC AT 400mA			
Switching Frequency	<25HZ		<25HZ			
Response Time	10ms / 10ms		10ms / 10ms			
Switching Hysteresis	<15%(sr)		<15%(sr)			
Repeat Accuracy	<1.0%(sr)		<1.0%(sr)			
Protection Category	IP67		IP67			
Operating Temperature	-25 °C - +70 °C		-25 °C - +70 °C			
Temperature Drift	<10%(sr)		<10%(sr)			
Short Circuit Protection	NO		NO			
Material Active Face	PTFE		PTFE			
DC 3 wire 10-30V NPN N.O.	-		-			
DC 3 wire 10-30V NPN N.C.	-		-			
DC 3 wire 10-30V PNP N.O.	-		-			
DC 3 wire 10-30V PNP N.C.	-		-			
DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)	-		-			
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)	-		-			
DC 2 wire 10-60V N.O.	-		-			
DC 2 wire 10-60V N.C.	-		-			
DC 3 wire 10-55v NPN N.O.	-		-			
DC 3 wire 10-55v NPN N.C.	-		-			
DC 3 wire 10-55v PNP N.O.	-		-			
DC 3 wire 10-55v PNP N.C.	-		-			
AC 2 wire 20-250V N.O.	W7B1-M3010A-O3B2	W7B2-M3015A-O3B2	11	W7B1-M3010A-O3S2	W7B2-M3015A-O3S2	11
AC 2 wire 20-250V N.C.	W7B1-M3010A-C3B2	W7B2-M3015A-C3B2	12	W7B1-M3010A-C3S2	W7B2-M3015A-C3S2	12
AC 2 wire 20-250V N.O. or N.C. Changeable .	-		-			
AC/DC 2 wire 20-250V N.O.	-		-			
AC/DC 2 wire 20-250V N.C.	-		-			
AC/DC 2 wire 20-250V N.O. or N.C. Changeable	-		-			
Wiring diagram number						
Dimensions (unit: mm)						
Cable 2M (PVC)	5.8φ3x0.5		5.8φ3x0.5			
Weight	approx.227 g / approx.217 g		approx.209g / approx.208 g			

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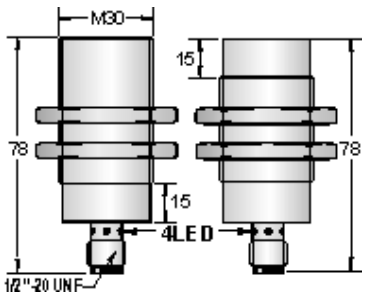
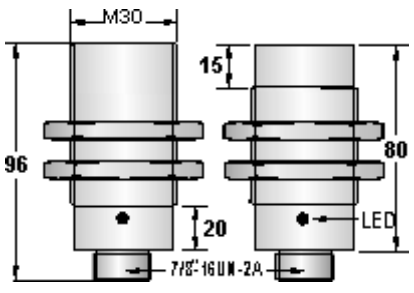
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 Sensing the future

# AC INDUCTIVE SENSORS WELD FIELD IMMUNE (M30)

Diameter	M30		M30			
Shielded/non-Shielded	Shielded/ Non-Shielded		Shielded/ Non-Shielded			
Switching Distance Sn mm	10mm / 15mm		10mm / 15mm			
Housing Material	PTFE Coated Brass		PTFE Coated Brass			
With LED/Without LED	With LED		With LED			
Picture	 		 			
Operating Voltage	20-250VAC		20-250VAC			
No Load Current	<1.8mA		<1.8mA			
Max. Load Current	400mA		400mA			
Leakge Current	<1.8mA		<1.8mA			
Surge Current	5A(20ms)		5A(20ms)			
Min. Load Current	5mA		5mA			
Voltage Drop	<8VAC AT 400mA		<8VAC AT 400mA			
Switching Frequency	<25HZ		<25HZ			
Response Time	10ms / 10ms		10ms / 10ms			
Switching Hysteresis	<15%(sr)		<15%(sr)			
Repeat Accuracy	<1.0%(sr)		<1.0%(sr)			
Protection Category	IP67		IP67			
Operating Temperature	-25 °C - +70 °C		-25 °C - +70 °C			
Temperature Drift	<10%(sr)		<10%(sr)			
Short Circuit Protection	NO		NO			
Material Active Face	PFTE		PFTE			
DC 3 wire 10-30V NPN N.O.	-		-			
DC 3 wire 10-30V NPN N.C.	-		-			
DC 3 wire 10-30V PNP N.O.	-		-			
DC 3 wire 10-30V PNP N.C.	-		-			
DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)	-		-			
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)	-		-			
DC 2 wire 10-60V N.O.	-		-			
DC 2 wire 10-60V N.C.	-		-			
DC 3 wire 10-55v NPN N.O.	-		-			
DC 3 wire 10-55v NPN N.C.	-		-			
DC 3 wire 10-55v PNP N.O.	-		-			
DC 3 wire 10-55v PNP N.C.	-		-			
AC 2 wire 20-250V N.O.	W7B1-M3010A-OMB3	W7B2-M3015A-OMB3	51	W7B1-M3010A-OZB3	W7B2-M3015A-OZB3	55
AC 2 wire 20-250V N.C.	W7B1-M3010A-CMB3	W7B2-M3015A-CMB3	51	W7B1-M3010A-CZB3	W7B2-M3015A-CZB3	55
AC 2 wire 20-250V N.O. or N.C. Changeable .	-		-			
AC/DC 2 wire 20-250V N.O.	-		-			
AC/DC 2 wire 20-250V N.C.	-		-			
AC/DC 2 wire 20-250V N.O. or N.C. Changeable	-		-			
Wiring diagram number						
Dimensions (unit: mm)						
Cable 2M (PVC)	-		-			
Weight	approx.147 g / approx.137 g		approx.187 g / approx.179 g			

Subject to modifications without notice

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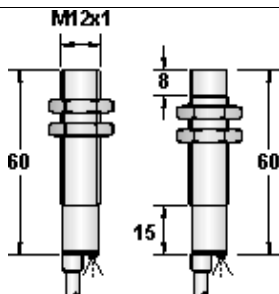
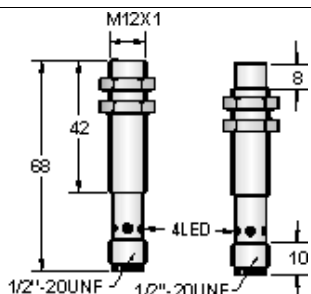
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# AC/DC INDUCTIVE SENSORS WELD FIELD IMMUNE (M12)

Diameter	M12		M12			
Shielded/non-Shielded	Shielded/ Non-Shielded		Shielded/ Non-Shielded			
Switching Distance Sn mm	2mm / 4mm		2mm / 4mm			
Housing Material	PTFE Coated Brass		PTFE Coated Brass			
With LED/Without LED	With LED		With LED			
Picture	 <div style="text-align: center;">CE</div>		 <div style="text-align: center;">CE</div>			
Operating Voltage	20-250VAC,50-60HZ;20-250VDC		20-250VAC,50-60HZ;20-250VDC			
No Load Current	<2.5mA		<2.5mA			
Max. Load Current	100mA		100mA			
Leakge Current	<2.5mA		<2.5mA			
Surge Current	2.2A for 20ms		2.2A for 20ms			
Min. Load Current	5mA		5mA			
Voltage Drop	<=10 VAC;<=8 VAC		<=10 VAC;<=8 VAC			
Switching Frequency	25HZ AC;40 HZ DC		25HZ AC;40 HZ DC			
Response Time	10ms / 10ms		10ms / 10ms			
Switching Hysteresis	<15%(sr)		<15%(sr)			
Repeat Accuracy	<1.0%(sr)		<1.0%(sr)			
Protection Category	IP67		IP67			
Operating Temperature	-25 °C - +70 °C		-25 °C - +70 °C			
Temperature Drift	<10%(sr)		<10%(sr)			
Short Circuit Protection	NO		NO			
Material Active Face	PTFE		PTFE			
DC 3 wire 10-30V NPN N.O.	-		-			
DC 3 wire 10-30V NPN N.C.	-		-			
DC 3 wire 10-30V PNP N.O.	-		-			
DC 3 wire 10-30V PNP N.C.	-		-			
DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)	-		-			
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)	-		-			
DC 2 wire 10-60V N.O.	-		-			
DC 2 wire 10-60V N.C.	-		-			
DC 3 wire 10-55v NPN N.O.	-		-			
DC 3 wire 10-55v NPN N.C.	-		-			
DC 3 wire 10-55v PNP N.O.	-		-			
DC 3 wire 10-55v PNP N.C.	-		-			
AC 2 wire 20-250V N.O.	-		-			
AC 2 wire 20-250V N.C.	-		-			
AC 2 wire 20-250V N.O. or N.C. Changeable .	-		-			
AC/DC 2 wire 20-250V N.O.	W8B1-M1202U-O3B2	W8B2-M1204U-O3B2	15	W8B1-M1202U-OMB3	W8B2-M1204U-OMB3	53
AC/DC 2 wire 20-250V N.C.	W8B1-M1202U-C3B2	W8B2-M1204U-C3B2	16	W8B1-M1202U-CMB3	W8B2-M1204U-CMB3	53
AC/DC 2 wire 20-250V N.O. or N.C. Changeable	-					
Wiring diagram number						
Dimensions (unit: mm)						
Cable 2M (PVC)	4φ3x0.34					
Weight	approx.77 g / approx.76 g		approx.14 g			

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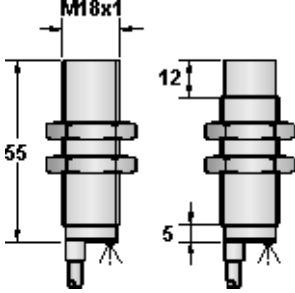
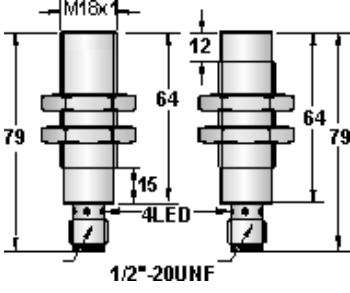
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# AC/DC INDUCTIVE SENSORS WELD FIELD IMMUNE (M18)

Diameter	M18		M18			
Shielded/non-Shielded	Shielded/ Non-Shielded		Shielded/ Non-Shielded			
Switching Distance Sn mm	5mm / 8mm		5mm / 8mm			
Housing Material	PTFE Coated Brass		PTFE Coated Brass			
With LED/Without LED	With LED		With LED			
Picture						
Operating Voltage	20-250VAC,50-60HZ;20-250VDC		20-250VAC,50-60HZ;20-250VDC			
No Load Current	<2.5mA		<2.5mA			
Max. Load Current	200mA		200mA			
Leakge Current	<2.5mA		<2.5mA			
Surge Current	2.2A for 20ms		2.2A for 20ms			
Min. Load Current	5mA		5mA			
Voltage Drop	<=10 VAC;<=8 VAC		<=10 VAC;<=8 VAC			
Switching Frequency	25HZ AC;40 HZ DC		25HZ AC;40 HZ DC			
Response Time	10ms / 10ms		10ms / 10ms			
Switching Hysteresis	<15%(sr)		<15%(sr)			
Repeat Accuracy	<1.0%(sr)		<1.0%(sr)			
Protection Category	IP67		IP67			
Operating Temperature	-25 °C - +70 °C		-25 °C - +70 °C			
Temperature Drift	<10%(sr)		<10%(sr)			
Short Circuit Protection	YES		YES			
Material Active Face	PTFE		PTFE			
DC 3 wire 10-30V NPN N.O.	-		-			
DC 3 wire 10-30V NPN N.C.	-		-			
DC 3 wire 10-30V PNP N.O.	-		-			
DC 3 wire 10-30V PNP N.C.	-		-			
DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)	-		-			
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)	-		-			
DC 2 wire 10-60V N.O.	-		-			
DC 2 wire 10-60V N.C.	-		-			
DC 3 wire 10-55v NPN N.O.	-		-			
DC 3 wire 10-55v NPN N.C.	-		-			
DC 3 wire 10-55v PNP N.O.	-		-			
DC 3 wire 10-55v PNP N.C.	-		-			
AC 2 wire 20-250V N.O.	-		-			
AC 2 wire 20-250V N.C.	-		-			
AC 2 wire 20-250V N.O. or N.C. Changeable .	-		-			
AC/DC 2 wire 20-250V N.O.	W8B1-M1805U-O3A2	W8B2-M1808U-O3A2	15	W8B1-M1805U-OMA3	W8B2-M1808U-OMA3	53
AC/DC 2 wire 20-250V N.C.	W8B1-M1805U-C3A2	W8B2-M1808U-C3A2	16	W8B1-M1805U-CMA3	W8B2-M1808U-CMA3	53
AC/DC 2 wire 20-250V N.O. or N.C. Changeable	-		-			
Wiring diagram number						
Dimensions (unit: mm)						
Cable 2M (PVC)	5.8φ3x0.5		-			
Weight	approx.161 g / approx.160g		approx.69 g / approx.68 g			

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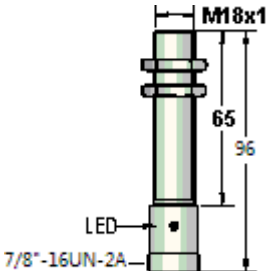
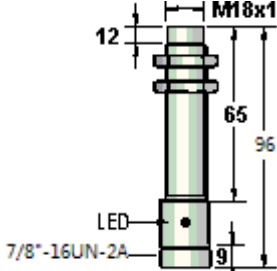
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# AC/DC INDUCTIVE SENSORS WELD FIELD IMMUNE (M18)

Diameter	M18		M18	
Shielded/non-Shielded	Shielded		Non-Shielded	
Switching Distance Sn mm	5mm		8mm	
Housing Material	PTFE Coated Brass		PTFE Coated Brass	
With LED/Without LED	With LED		With LED	
Picture	 		 	
Operating Voltage	20-250VAC,50-60HZ;20-250VDC		20-250VAC,50-60HZ;20-250VDC	
No Load Current	<2.5mA		<2.5mA	
Max. Load Current	200mA		200mA	
Leakge Current	<2.5mA		<2.5mA	
Surge Current	2.2A for 20ms		2.2A for 20ms	
Min. Load Current	5mA		5mA	
Voltage Drop	<=10 VAC;<=8 VAC		<=10 VAC;<=8 VAC	
Switching Frequency	25HZ AC;40 HZ DC		25HZ AC;40 HZ DC	
Response Time	10ms / 10ms		10ms / 10ms	
Switching Hysteresis	<15%(sr)		<15%(sr)	
Repeat Accuracy	<1.0%(sr)		<1.0%(sr)	
Protection Category	IP67		IP67	
Operating Temperature	-25 °C - +70 °C		-25 °C - +70 °C	
Temperature Drift	<10%(sr)		<10%(sr)	
Short Circuit Protection	YES		YES	
Material Active Face	PTFE		PTFE	
DC 3 wire 10-30V NPN N.O.	-		-	
DC 3 wire 10-30V NPN N.C.	-		-	
DC 3 wire 10-30V PNP N.O.	-		-	
DC 3 wire 10-30V PNP N.C.	-		-	
DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)	-		-	
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)	-		-	
DC 2 wire 10-60V N.O.	-		-	
DC 2 wire 10-60V N.C.	-		-	
DC 3 wire 10-55v NPN N.O.	-		-	
DC 3 wire 10-55v NPN N.C.	-		-	
DC 3 wire 10-55v PNP N.O.	-		-	
DC 3 wire 10-55v PNP N.C.	-		-	
AC 2 wire 20-250V N.O.	-		-	
AC 2 wire 20-250V N.C.	-		-	
AC 2 wire 20-250V N.O. or N.C. Changeable .	-		-	
AC/DC 2 wire 20-250V N.O.	W8B1-M1805U-OZA3	55	W8B2-M1808U-OZA3	55
AC/DC 2 wire 20-250V N.C.	W8B1-M1805U-CZA3	55	W8B2-M1808U-CZA3	55
AC/DC 2 wire 20-250V N.O. or N.C. Changeable	-		-	
Wiring diagram number				
Dimensions (unit: mm)				
Cable 2M (PVC)	-		-	
Weight	approx. 94g		approx. 91 g	

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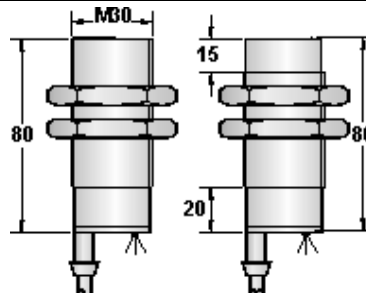
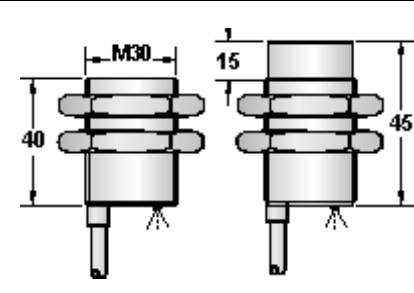
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# AC/DC INDUCTIVE SENSORS WELD FIELD IMMUNE (M30)

Diameter	M30		M30	
Shielded/non-Shielded	Shielded/ Non-Shielded		Shielded/ Non-Shielded	
Switching Distance Sn mm	10mm / 15mm		10mm / 15mm	
Housing Material	PFTE Coated Brass		PFTE Coated Brass	
With LED/Without LED	With LED		With LED	
Picture	 <p style="text-align: center;">CE</p>		 <p style="text-align: center;">CE</p>	
Operating Voltage	20-250VAC,50-60HZ;20-250VDC		20-250VAC,50-60HZ;20-250VDC	
No Load Current	<2.5mA		<2.5mA	
Max. Load Current	200mA		200mA	
Leakge Current	<2.5mA		<2.5mA	
Surge Current	2.2A for 20ms		2.2A for 20ms	
Min. Load Current	5mA		5mA	
Voltage Drop	<=10 VAC;<=8 VAC		<=10 VAC;<=8 VAC	
Switching Frequency	25HZ AC;40 HZ DC		25HZ AC;40 HZ DC	
Response Time	10ms / 10ms		10ms / 10ms	
Switching Hysteresis	<15%(sr)		<15%(sr)	
Repeat Accuracy	<1.0%(sr)		<1.0%(sr)	
Protection Category	IP67		IP67	
Operating Temperature	-25 °C - +70 °C		-25 °C - +70 °C	
Temperature Drift	<10%(sr)		<10%(sr)	
Short Circuit Protection	YES		YES	
Material Active Face	PTFE		PTFE	
DC 3 wire 10-30V NPN N.O.	-		-	
DC 3 wire 10-30V NPN N.C.	-		-	
DC 3 wire 10-30V PNP N.O.	-		-	
DC 3 wire 10-30V PNP N.C.	-		-	
DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)	-		-	
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)	-		-	
DC 2 wire 10-60V N.O.	-		-	
DC 2 wire 10-60V N.C.	-		-	
DC 3 wire 10-55v NPN N.O.	-		-	
DC 3 wire 10-55v NPN N.C.	-		-	
DC 3 wire 10-55v PNP N.O.	-		-	
DC 3 wire 10-55v PNP N.C.	-		-	
AC 2 wire 20-250V N.O.	-		-	
AC 2 wire 20-250V N.C.	-		-	
AC 2 wire 20-250V N.O. or N.C. Changeable .	-		-	
AC/DC 2 wire 20-250V N.O.	W8B1-M3010U-O3A2	W8B2-M3015U-O3A2	15	W8B1-M3010U-O3A2
AC/DC 2 wire 20-250V N.C.	W8B1-M3010U-C3A2	W8B2-M3015U-C3A2	10	W8B1-M3010U-C3A2
AC/DC 2 wire 20-250V N.O. or N.C. Changeable	-		-	
Wiring diagram number				
Dimensions (unit: mm)				
Cable 2M (PVC)	5.8φ3x0.5		5.8φ3x0.5	
Weight	approx.247 g / approx.247 g		approx.209g / approx.208 g	

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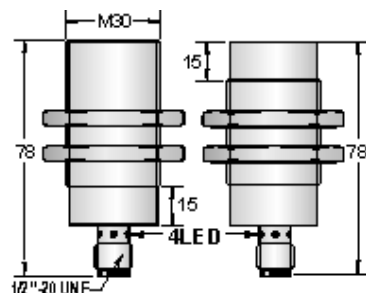
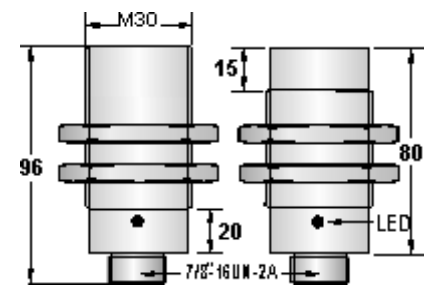
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# AC/DC INDUCTIVE SENSORS WELD FIELD IMMUNE (M30)

Diameter	M30		M30			
Shielded/non-Shielded	Shielded/ Non-Shielded		Shielded/ Non-Shielded			
Switching Distance Sn mm	10mm / 15mm		10mm / 15mm			
Housing Material	PFTE Coated Brass		PFTE Coated Brass			
With LED/Without LED	With LED		With LED			
Picture	 		 			
Operating Voltage	20-250VAC,50-60HZ;20-250VDC		20-250VAC,50-60HZ;20-250VDC			
No Load Current	<2.5mA		<2.5mA			
Max. Load Current	200mA		200mA			
Leakge Current	<2.5mA		<2.5mA			
Surge Current	2.2A for 20ms		2.2A for 20ms			
Min. Load Current	5mA		5mA			
Voltage Drop	<=10 VAC;<=8 VAC		<=10 VAC;<=8 VAC			
Switching Frequency	25HZ AC;40 HZ DC		25HZ AC;40 HZ DC			
Response Time	10ms / 10ms		10ms / 10ms			
Switching Hysteresis	<15%(sr)		<15%(sr)			
Repeat Accuracy	<1.0%(sr)		<1.0%(sr)			
Protection Category	IP67		IP67			
Operating Temperature	-25 °C - +70 °C		-25 °C - +70 °C			
Temperature Drift	<10%(sr)		<10%(sr)			
Short Circuit Protection	YES		YES			
Material Active Face	PTFE		PTFE			
DC 3 wire 10-30V NPN N.O.	-		-			
DC 3 wire 10-30V NPN N.C.	-		-			
DC 3 wire 10-30V PNP N.O.	-		-			
DC 3 wire 10-30V PNP N.C.	-		-			
DC 4 wire 10-30V Changeover PNP (N.O. & N.C.)	-		-			
DC 4 wire 10-30V Changeover NPN (N.O. & N.C.)	-		-			
DC 2 wire 10-60V N.O.	-		-			
DC 2 wire 10-60V N.C.	-		-			
DC 3 wire 10-55v NPN N.O.	-		-			
DC 3 wire 10-55v NPN N.C.	-		-			
DC 3 wire 10-55v PNP N.O.	-		-			
DC 3 wire 10-55v PNP N.C.	-		-			
AC 2 wire 20-250V N.O.	-		-			
AC 2 wire 20-250V N.C.	-		-			
AC 2 wire 20-250V N.O. or N.C. Changeable .	-		-			
AC/DC 2 wire 20-250V N.O.	W8B1-M3010U-OMA3	W8B2-M3015U-OMA3	53	W8B1-M3010U-OZA3	W8B2-M3015U-OZA3	55
AC/DC 2 wire 20-250V N.C.	W8B1-M3010U-CMA3	W8B2-M3015U-CMA3	53	W8B1-M3010U-CZA3	W8B2-M3015U-CZA3	55
AC/DC 2 wire 20-250V N.O. or N.C. Changeable	-			-		
Wiring diagram number						
Dimensions (unit: mm)						
Cable 2M (PVC)	-		-			
Weight	approx.147 g / approx.137 g		approx.187 g / approx.179 g			

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