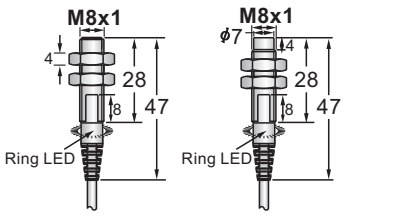
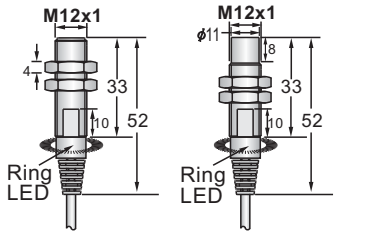
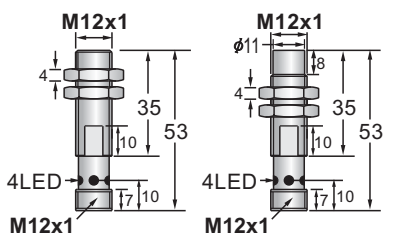
AC 2-WIRE HIGH TORQUE, STANDARD SENSING RANGE (SHORT BODY)

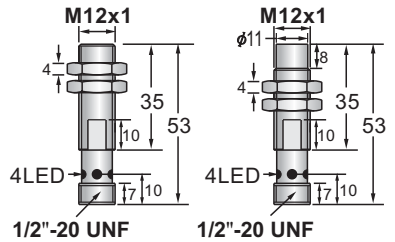
Diameter	M8		M12	
● Shielded ○ NON-Shielded	●	○	●	○
Switching Distance Sn mm	1.5	2.0	2.0	4.0
Housing Material	Stainless steel		Nickel plated brass	
● With LED ○ Without LED	●		●	
Dimensions (Unit: mm)				
Operating Voltage	20-250 V AC		20-250 V AC	
Standard target	8x8x1 mm	12x12x1 mm	12x12x1 mm	15x15x1 mm
Switching Frequency	25 Hz		25 Hz	
Current consumption	1.7mA max.		1.7mA max.	
Control output (switching capacity)	5... 100mA max.		5... 100mA max.	
Switching Hysteresis	⩽ 15% of sensing distance		⩽ 15% of sensing distance	
Protection Category	IP67		IP67	
Ambient temperature	Operating:-25°C to 70°C		Operating:-25°C to 70°C	
Ambient humidity	Operating: 35% to 95%		Operating: 35% to 95%	
Temperature Drift	<10%		<10%	
Short Circuit Protection	NO		NO	
EMC	RFI>3V/m / EFT>1KV / ESD>4KV (contact)		RFI>3V/m / EFT>1KV / ESD>4KV (contact)	
Shock / Vibration	IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2		IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	
Material active face	PBT		PBT	
AC 2 wire 20-250V N.O.	~~OCN1-081.5A-A2M2~~	11 ~~OCN2-0802A-A2M2~~	OCN1-1202A-A2M2	11 OCN2-1204A-A2M2
AC 2 wire 20-250V N.C.	~~OCN1-081.5A-B2M2~~	12 ~~OCN2-0802A-B2M2~~	OCN1-1202A-B2M2	12 OCN2-1204A-B2M2
AC/DC 2 wire 20-250V N.O.				
AC/DC 2 wire 20-250V N.C.				
Remark	**Pigtail types** Note: The standard cable length is 300mm. Any other length can be made by request. The relevant part number is with suffix " P12 " , for example: OCN1-081.5A-A2M0.3/P12 M12 pigtail mode		**Pigtail types** Note: The standard cable length is 300mm. Any other length can be made by request. The relevant part number is with suffix " P12 " , for example: OCN1-1202A-A2M0.3/P12 M12 pigtail mode	
Cable 2M (PVC)	3 ϕ 3x0.15		4 ϕ 3x0.15	
Weight	Approx.45 g		Approx.120 g	

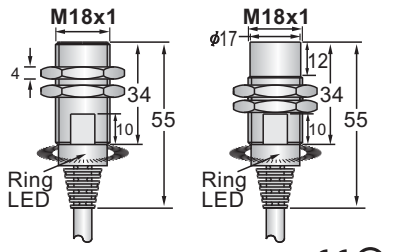
Note:
Coming Soon : Part numbers with underline
In Preparation : Part numbers with a line through the middle

AC 2-WIRE HIGH TORQUE, STANDARD SENSING RANGE (SHORT BODY)

M12		M12		M18	
●	○	●	○	●	○
2.0	4.0	2.0	4.0	5.0	8.0
Nickel plated brass		Nickel plated brass		Nickel plated brass	
●		●		●	



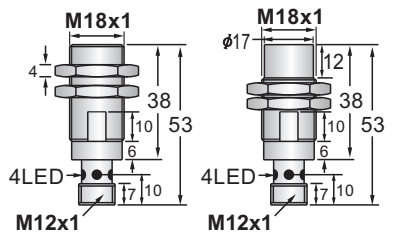


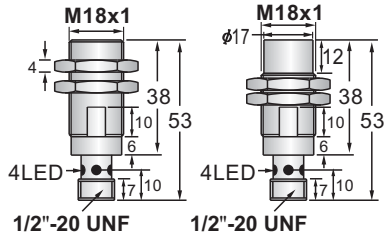


20-250 V AC					
12x12x1 mm	15x15x1 mm			18x18x1 mm	30x30x1 mm
25 Hz					
1.7mA max.					
5... 200mA max.				5... 300mA max.	
⩽ 15% of sensing distance					
IP67					
Operating:-25°C to 70°C					
Operating: 35% to 95%					
<10%					
NO					
RFI>3V/m / EFT>1KV / ESD>4KV (contact)					
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2					
PBT					

AC 2-WIRE HIGH TORQUE, STANDARD SENSING RANGE (SHORT BODY)

M18		M18	
●	○	●	○
5.0	8.0	5.0	8.0
Nickel plated brass		Nickel plated brass	
●		●	



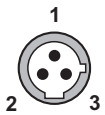


20-250 V AC			20-250 V AC		
18x18x1 mm	30x30x1 mm		18x18x1 mm	30x30x1 mm	
25 Hz			25 Hz		
1.7mA max.			1.7mA max.		
5... 300mA max.			5... 300mA max.		
⩽ 15% of sensing distance			⩽ 15% of sensing distance		
IP67			IP67		
Operating:-25°C to 70°C			Operating:-25°C to 70°C		
Operating: 35% to 95%			Operating: 35% to 95%		
<10%			<10%		
NO			NO		
RFI>3V/m / EFT>1KV / ESD>4KV (contact)			RFI>3V/m / EFT>1KV / ESD>4KV (contact)		
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2			IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2		
PBT			PBT		
OCN1-1805A-ABM4	57	OCN2-1808A-ABM4	OCN1-1805A-AUM3	58	OCN2-1808A-AUM3
OCN1-1805A-BBM4	57	OCN2-1808A-BBM4	OCN1-1805A-BUM3	58	OCN2-1808A-BUM3

M12 Connector face view

1-black
2-blue
3-not used
4-yellow/green(⏚)

1/2"-20 UNF Connector face view



1-yellow/green(⏚)
2-black
3-blue

Approx. 45 g	Approx.45 g

Note:
Coming Soon : Part numbers with underline