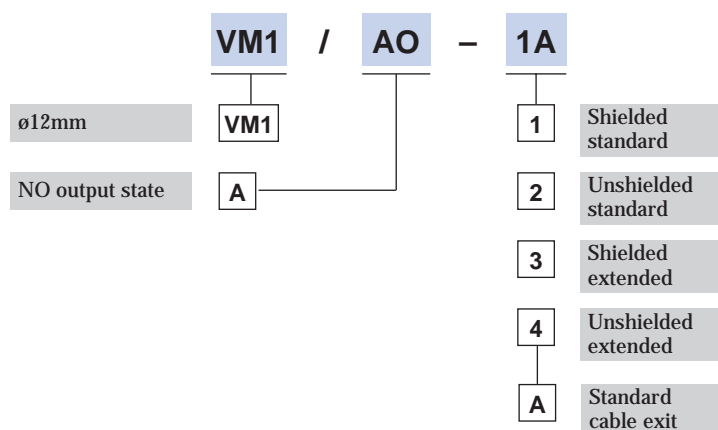


## Standard and extended distance M12 AC proximity switches

- Wide operating voltage 20-264VAC 50/60Hz
- LED operation indicator
- IP67
- Nickel-plated brass housing
- Nominal sensing range shielded 2mm
- Unshielded 4mm
- Shielded 3.2mm
- Unshielded 6.5mm



## Options and ordering codes



**Normally closed output types, plug-in types**  
Please contact IMO for price and availability

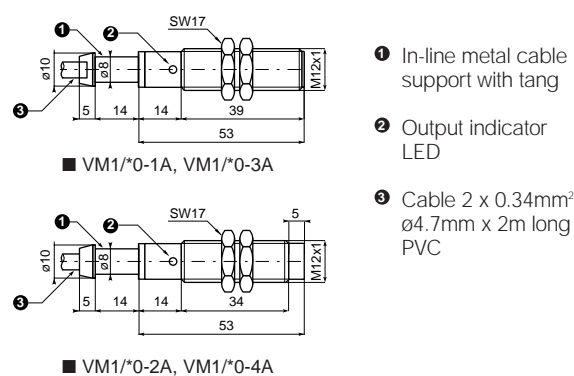
Please see – Mounting brackets page 330

## Specifications

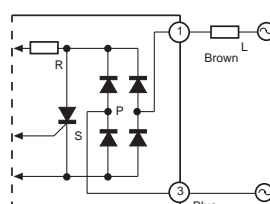
	Standard		Extended Distance	
	VM1/A0-1A	VM1/A0-2A	VM1/A0-3A	VM1/A0-4A
	VM1/C0-1A	VM1/C0-2A	VM1/C0-3A	VM1/C0-4A
<b>Nominal sensing distance Sn</b>	2mm <sup>(1)</sup>	4mm <sup>(1)</sup>	3.2mm <sup>(1)</sup>	6.5mm <sup>(1)</sup>
<b>Type</b>	shielded	unshielded	shielded	unshielded
<b>Effective range</b>	0 - 1.6mm	0 - 3.2mm	0 - 2.5mm	0 - 5.2mm
<b>Hysteresis</b>	10%			
<b>Repeatability</b>	5%			
<b>Supply voltage</b>	20 - 264VAC 50/60Hz			
<b>Output current</b>	5-300 mA RMS			
<b>Non-repeating current peak</b>	7A T <sub>on</sub> = 10ms			
<b>Residual current</b>	0.7mA RMS			
<b>Residual output voltage</b>	check IMO			
<b>Switching frequency</b>	25Hz			
<b>Output type</b>	TRIAC			
<b>Time before switch operation</b>	200 ms			
<b>Insulation resistance</b>	2000MΩ at 1000VDC			
<b>Transient noise protection</b>	1J (10/1000μs)			
<b>Dielectric strength</b>	1500VAC 50Hz for 1 min			
<b>Fast transient withstand</b>	500V (IEC 801-4.1)			
<b>Temperature range</b>	-25° +70°C			
<b>Temperature drift</b>	10% Sn			
<b>Protection degree</b>	IP67			
<b>LED indicator</b>	red – output on			
<b>Housing material</b>	nickel plated brass			
<b>Face material</b>	PBT to UL 94VO			
<b>Cable</b>	PVC 2 x 0.22mm² ø3.75mm			
<b>Tightening torque</b>	15Nm (153 kg cm)			
<b>Ambient humidity</b>	35%-85% r.h.			
<b>Weight approx</b>	70g			

<sup>(1)</sup> refers to Fe 37 12 x 12mm standard target 1mm thick

## Dimensions (mm)



## Output circuit – wiring connections



Note: in order to ensure a long life of the output stage, it is essential to avoid short-circuits. Also, the load current should never exceed the specifications value.