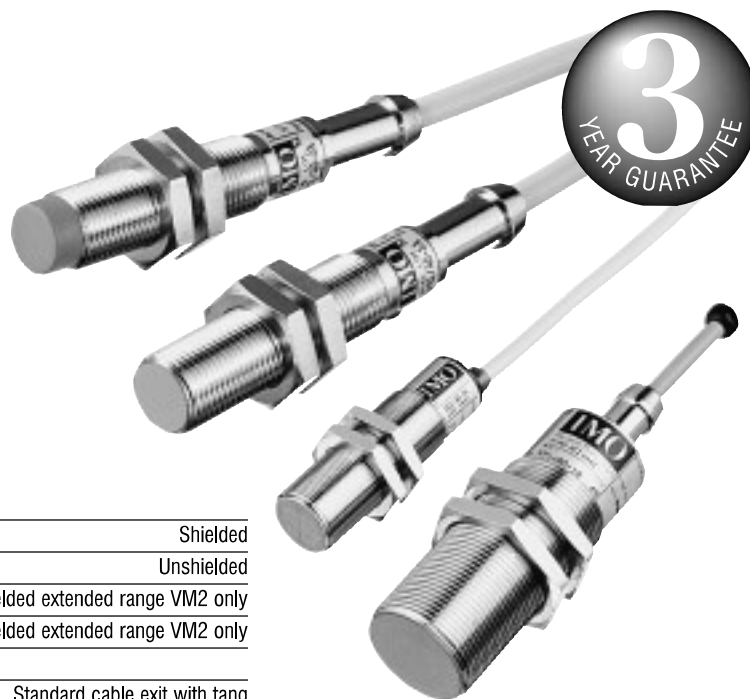


M12/M18/M30 Inductive 2-wire AC Proximity Switches VM2/VK2/VT2



- Wide operating voltage 20-264VAC 50/60Hz
- LED operation indicator
- UL and CUL approved
- Shielded and unshielded models
- IP67 nickel-plated brass housing
- Integral metal cable support on M30 model



Options and ordering codes

VM2 / A0 - 1B															
<table border="1"> <tr><td>ø12mm</td><td>VM2</td></tr> <tr><td>ø18mm</td><td>VK2</td></tr> <tr><td>ø30mm</td><td>VT2</td></tr> </table>	ø12mm	VM2	ø18mm	VK2	ø30mm	VT2	<table border="1"> <tr><td>1</td><td>Shielded</td></tr> <tr><td>2</td><td>Unshielded</td></tr> <tr><td>3</td><td>Shielded extended range VM2 only</td></tr> <tr><td>4</td><td>Unshielded extended range VM2 only</td></tr> </table>	1	Shielded	2	Unshielded	3	Shielded extended range VM2 only	4	Unshielded extended range VM2 only
ø12mm	VM2														
ø18mm	VK2														
ø30mm	VT2														
1	Shielded														
2	Unshielded														
3	Shielded extended range VM2 only														
4	Unshielded extended range VM2 only														
<table border="1"> <tr><td>NO output state</td><td>A</td></tr> <tr><td>NC output state</td><td>C</td></tr> </table>	NO output state	A	NC output state	C	<table border="1"> <tr><td>B</td><td>Standard cable exit with tang</td></tr> <tr><td>H</td><td>Plug in</td></tr> </table>	B	Standard cable exit with tang	H	Plug in						
NO output state	A														
NC output state	C														
B	Standard cable exit with tang														
H	Plug in														

Specification



Models	Standard		Extended Distance					
	VM2/A0-1B	VM2/A0-2B	VM2/A0-3B	VM2/A0-4B	VK2/**-1*	VK2/**-2*	VT2/**-1*	VT2/**-2*
Nominal sensing distance Sn	2mm ⁽³⁾	4mm ⁽³⁾	3.2mm ⁽³⁾	6.5mm ⁽³⁾	5 mm ⁽¹⁾	8 mm ⁽¹⁾	10mm ⁽²⁾	15 mm ⁽²⁾
Type	shielded	unshielded	shielded	unshielded	shielded	unshielded	shielded	unshielded
Effective range	0 - 1.6mm	0 - 3.2mm	0 - 2.5mm	0 - 5.2mm				
Hysteresis	10%				10% max.		10% max.	
Repeatability	5%				5%		5%	
Supply voltage	20-264VAC 50/60Hz				20-264VAC		20-264VAC	
Output current	5-300 mA RMS				NO or NC		NO or NC	
Non-repeating current peak	7A Ton = 10ms				7A (TON=10ms)		7A (TON=10ms)	
Residual current	0.7mA RMS				0.7mA RMS		0.7mA RMS	
Residual output voltage	check IMO				check IMO		check IMO	
Supply frequency	50-60Hz				50-60Hz		50-60Hz	
Switching frequency	25Hz				25 Hz		25 Hz	
Output type	TRIAC				TRIAC		TRIAC	
Time before switch operation	200 ms				200 mS		200 mS	
Insulation resistance	2000MΩ at 1000VDC				>2000m Ohm to 1000VDC		>2000m Ohm to 1000VDC	
Transient noise protection	1J (10/1000μS)							
Dielectric strength	1500VAC 50Hz for 1 min				1500VAC 50Hz for 1Min.		1500VAC 50Hz for 1 Min.	
Fast transient withstand	500V (IEC 801-4,1)				500V (IEC801-4)		500V (IEC801-4)	
Temperature range	-25° +70°C				-25° +70°C		-25° +70°C	
Temperature drift	10% Sn				10% Sn		10% Sn	
Protection degree	IP67				IP67		IP67	
LED indicator	red – output on				yes (at the rear)		yes (at the side)	
Housing material	nickel plated brass				nickel-plated brass		nickel-plated brass	
Face material	PBT to UL 94V0				POM		PBT to UL94V0	
Cable	PVC 2 x 0.22mm2 ø3.75mm							
Tightening torque	15Nm (153 kg cm)				40 Nm max.		100 Nm max.	
Ambient humidity	35%-85% r.h.				35%-85% r.h.		35%-85% r.h.	
Weight approx	70g				120 gr.		300gr.	

⁽¹⁾ refers to Fe37 18x18mm standard target. 1mm thick. ⁽²⁾ refers to Fe37 30x30mm standard target. 1mm thick. ⁽³⁾ refers to Fe 37 12 x 12mm standard target. 1mm thick.

M12/M18/M30 Inductive 2-wire AC Proximity Switches VM2/VK2/VT2 continued

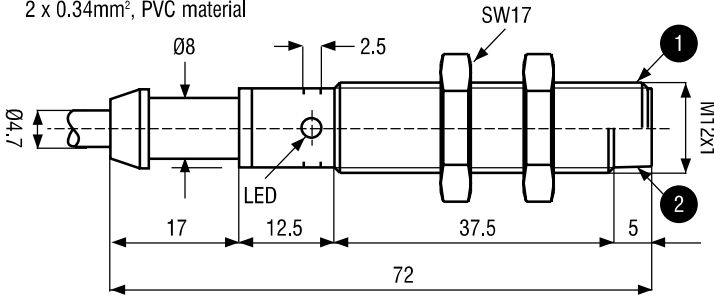


Dimensions (mm)

In line cable exit with tang

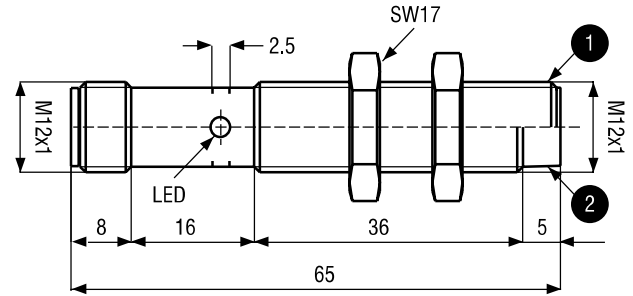
VM2/*0-*B

Cable: $\phi 4.7\text{mm}$, 2m length
2 x 0.34mm², PVC material



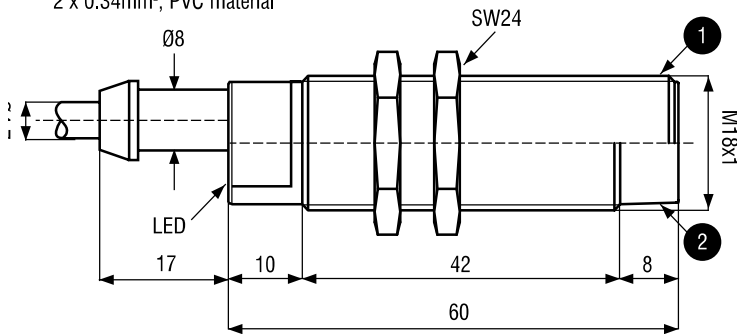
M12 plug cable exit

VM2/*0-*H

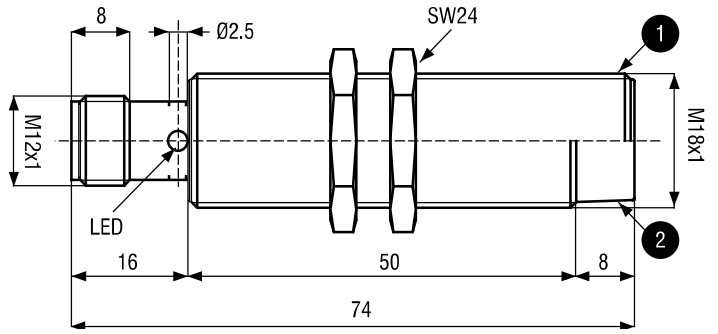


VK2/*0-*B

Cable: $\phi 4.7\text{mm}$, 2m length
2 x 0.34mm², PVC material

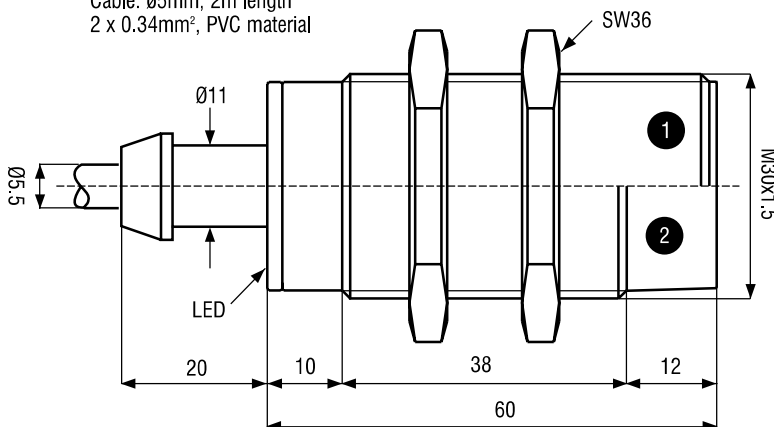


VK2/*0-*H

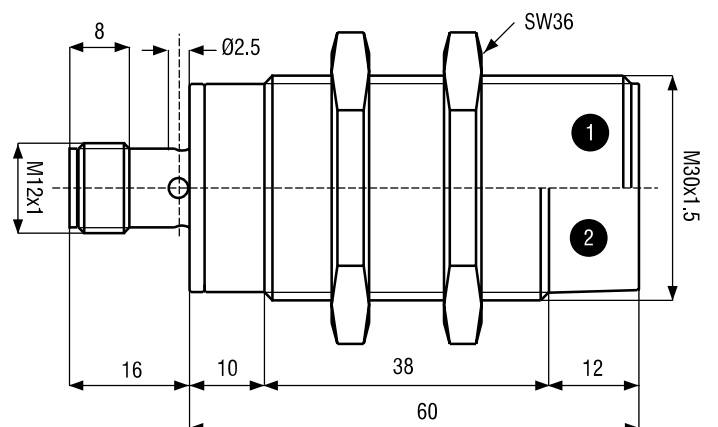


VT2/*0-*B

Cable: $\phi 5\text{mm}$, 2m length
2 x 0.34mm², PVC material

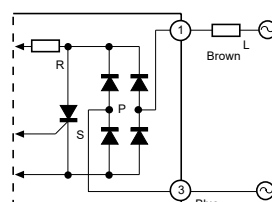


VT2/*0-*H



- 1 Shielded version
- 2 Unshielded version

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.