

VM Sensors

Table 20.25: Specifications and Catalog Numbers



Virtu™ VM1 and VM18

Specifications					
Sensing Characteristics					
Sensing Range	51–508 mm (2–20 in.)				
Max. Switching Frequency	300 Hz				
Power Requirements					
Supply Voltage	12–24 Vdc				
Supply Current	40 mA (excluding load)				
Environmental Ratings					
Operating Temperature	–30 to 70 °C (–22 to 158 °F)				
Environment	NEMA 4X (indoor use only), IP67				
Construction					
VM18 Barrel, ØxL	18 x 1 x 77.62 mm (0.709 x 3.06 in.)				
VM1 Dual Mount	Ø 18 mm and Flat Format 43.7 x 18 x 59.7 mm (1.72 x 0.70 x 2.35 in.)				
Housing Material	PBT Resin				
Transducer	Glass Epoxy				
Output Type		Catalog Number			
Output		Cable		Quick Disconnect	
		Dual Mount	Barrel	Dual Mount	Barrel
Proximity	PNP Sourcing	N.O.	VM18PNO	VM18PNOQ	VM18PNOQ
		N.C.	VM1PNC	VM18PNC	VM18PNCQ
	NPN Sinking	N.O.	VM1NNO	VM18NNO	VM18NNOQ
		N.C.	VM1NNC	VM18NNC	VM18NNCQ
	PNP Sourcing	N.O.	VM1PTO	VM18PTO	VM1PTOQ
		N.C.			
NPN Sinking	N.O.	VM1NTO	VM18NTO	VM1NTOQ	
	N.C.				
Dual-Level Pump In Normally Open	Off at loss of echo and at powerup	PNP	VM1PPI0000	VM18PPI0000	VM1PPI0000Q
		NPN	VM1NPI0000	VM18NPI0000	VM1NPI0000Q
	On at loss of echo and at powerup	PNP	VM1PPI1000	VM18PPI1000	VM1PPI1000Q
		NPN	VM1NPI1000	VM18NPI1000	VM1NPI1000Q
Hold on loss of echo, Off at powerup	PNP	VM1PPI2000	VM18PPI2000	VM1PPI2000Q	
	NPN	VM1NPI2000	VM18NPI2000	VM1NPI2000Q	
Dual-Level Pump Out Normally Open	Off at loss of echo and at powerup	PNP	VM1PPO0000	VM18PPO0000	VM1PPO0000Q
		NPN	VM1NPO0000	VM18NPO0000	VM1NPO0000Q
	On at loss of echo and at powerup	PNP	VM1PPO1000	VM18PPO1000	VM1PPO1000Q
		NPN	VM1NPO1000	VM18NPO1000	VM1NPO1000Q
	Hold on loss of echo, Off at powerup	PNP	VM1PPO2000	VM18PPO2000	VM1PPO2000Q
		NPN	VM1NPO2000	VM18NPO2000	VM1NPO2000Q
Analog	Voltage 0–10 Vdc with Temperature Compensation For Direct/Inverse models, change VD or VI to VA.				
	Direct, 0 V at loss of echo and at powerup	VM1VD0000	VM18VD0000	VM1VD0000Q	VM18VD0000Q
	Inverse, 0 V at loss of echo and at powerup	VM1VI0000	VM18VI0000	VM1VI0000Q	VM18VI0000Q
	Direct, 10 V at loss of echo and at powerup	VM1VD1000	VM18VD1000	VM1VD1000Q	VM18VD1000Q
	Inverse, 10 V at loss of echo and at powerup	VM1VI1000	VM18VI1000	VM1VI1000Q	VM18VI1000Q
	Direct, hold on loss of echo, 0 V at powerup	VM1VD2000	VM18VD2000	VM1VD2000Q	VM18VD2000Q
	Inverse, hold on loss of echo, 0 V at powerup	VM1VI2000	VM18VI2000	VM1VI2000Q	VM18VI2000Q
	Direct, hold on loss of echo, 10 V at powerup	VM1VD3000	VM18VD3000	VM1VD3000Q	VM18VD3000Q
	Inverse, hold on loss of echo, 10 V at powerup	VM1VI3000	VM18VI3000	VM1VI3000Q	VM18VI3000Q
	Current 4–20 mA with Temperature Compensation For Direct/Inverse models, change CD or CI to CA				
	Direct, 4 mA at loss of echo and at powerup	VM1CD0000	VM18CD0000	VM1CD0000Q	VM18CD0000Q
	Inverse, 4 mA at loss of echo and at powerup	VM1CI0000	VM18CI0000	VM1CI0000Q	VM18CI0000Q
	Direct, 20 mA at loss of echo and at powerup	VM1CD1000	VM18CD1000	VM1CD1000Q	VM18CD1000Q
	Inverse, 20 mA at loss of echo and at powerup	VM1CI1000	VM18CI1000	VM1CI1000Q	VM18CI1000Q
	Direct, hold on loss of echo, 4 mA at powerup	VM1CD2000	VM18CD2000	VM1CD2000Q	VM18CD2000Q
	Inverse, hold on loss of echo, 4 mA at powerup	VM1CI2000	VM18CI2000	VM1CI2000Q	VM18CI2000Q
	Direct, hold on loss of echo, 20 mA at powerup	VM1CD3000	VM18CD3000	VM1CD3000Q	VM18CD3000Q
	Inverse, hold on loss of echo, 20 mA at powerup	VM1CI3000	VM18CI3000	VM1CI3000Q	VM18CI3000Q