Virtu™ Utrasonic Sensors



And VM18 ultrasonic proximity

and VM18 ultrasonic proximity

sensors revolutionized the

industry by making superior

ultrasonic technology accessible.

Priced from \$89 to \$139,

these powerful sensors

feature a sensing range of

50 mm - 500 mm (2" - 20").

Now Hyde Park is expanding

the Virtu product line with the

new Virtu 30 long-range

ultrasonic proximity sensor.

Capable of sensing up to 1 meter (39"), the new Virtu 30 ultrasonic proximity sensor makes long-range ultrasonic sensing affordable.

This versatile, powerful sensor incorporates the same advanced ultrasonic technology as more expensive sensors, including a discriminating microprocessor program, but at a more economical price. Available for less than \$200, Virtu 30 is ideal for many long-range OEM applications as well as material handling, automotive and packaging applications.

While doubling the sensing distance of the Virtu VM1 and VM18 sensors, Virtu 30 offers many of the same great benefits:

- Longer sensing range,
 100 mm 1 m (4" 39")
- Teach-in window capability
- Tamperproof, removable pushbutton teaching accessory
- Ability to sense changing materials, colors and shapes without downtime or recalibration
- Unfailing repeatability and reliability in harsh environments
- Sinking (NPN) or sourcing (PNP) output
- Discrete, analog or dual level output
- Quick-disconnect configuration
- NEMA 4X and IP67 ratings
- CE certification



Trask Instrumentation Inc.

Ph: 864-848-3993







Virtu™ Utrasonic Sensors





	VM1 and VM18 - Proximity Output	VM1 and VM18 - Dual Level		
Sensing Characteristics		- 120 miles (1997)		
Sensing Range	50 mm to 500 mm (2" to 20")	50 mm to 500 mm (2" to 20")		
Sensing Frequency	300 kHz	300 kHz		
Power Requirements				
Supply Voltage	12-24 VDC	12-24 VDC		
Supply Current	40 mA (excluding load)	40 mA (excluding load)		
Environmental	The Control of the Control of the Control			
Operating Temperature Range	-30°C to 70°C (-22°F to 158°F)	-30°C to 70°C (-22°F to 158°F)		
Environmental Protection Ratings	NEMA 4X, IP67	NEMA 4X, IP67		
Construction				
Barrel Dimensions (Ø x L)	18 mm x 77.62 mm (0.70" x 3.06")	18 mm x 77.62 mm (0.70" x 3.06")		
Flat Profile Dimensions (W x H x D)	43.7 mm x 18 mm x 59.7 mm (1.72" x 0.70" x 2.35")	43.7 mm x 18 mm x 59.7 mm (1.72" x 0.70" x 2.35")		
Housing Material	VM1 = Valox®; VM18 = PBT	VM1 = Valox®; VM18 = PBT		
Transducer	Glass Epoxy	Glass Epoxy		

Output Type (by Part Number)			15 15	100	-71	
		Cable	Quick Disconnect		Cable	Quick Disconnect
	PNP Sourcing NO	VM1-PNO	VM1/18-PN0-Q	Pump-in Normally Open	VM1-PPI0000	VM1/18-PPI0000-Q
	PNP Sourcing NC	VM1-PNC	VM1/18-PNC-Q	Pump-in Normally Closed	VM1-NPI0000	VM1/18-NPI0000-0
	NPN Sinking NO	VM1-NNO	VM1/18-NN0-Q	Pump-out Normally Open	VM1-PP00000	VM1/18-PP00000-Q
	NPN Sinking NC	VM1-NNC	VM1/18-NNC-Q	Pump-out Normally Closed	VM1-NP00000	VM1/18-NP00000-Q

(ii (HydePark.

^{*}The following models are available by adding the indicated digits to the part number Analog maximum: 1000, i.e., VM1-VD-1000

Hold on Loss of Echo – analog minimum on power-up: 2000 (i.e., VMI-CA-2000-Q)

Hold on Loss of Echo – analog maximum on power-up: 3000 (i.e., VMI-VA-3000-Q)





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VM1 and VM18 - Analog Output	Virtu 30 and Virtu 80 - Proximity Output	Virtu 30 and Virtu 80 - Analog Output		
NAME OF TAXABLE PARTY.				
50 mm to 500 mm (2" to 20")	100 mm to 1000 mm (4" to 39")	100 mm to 1000 mm (4" to 39")		
300 kHz	180 kHz	180 kHz		
	The second second			
15-24 VDC	12-24 VDC	15-24 VDC		
40 mA (excluding load)	60 mA (excluding load)	70 mA (excluding load)		
	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN THE PER			
-30°C to 70°C (-22°F to 158°F)	-30°C to 70°C (-22°F to 158°F)	-30°C to 70°C (-22°F to 158°F)		
NEMA 4X, IP67	NEMA 4X, IP67	NEMA 4X, IP67		
18 mm x 77.62 mm (0.70" x 3.06")	30 x 1 x 95.26 mm (1.18" x 3.75")	31 x 1 x 95.26 mm (1.18" x 3.75")		
43.7 mm x 18 mm x 59.7 mm (1.72" x 0.70" x 2.35")	80 x 65 x 34 mm (3.15" x 2.55" x 1.33") 80 x 65 x 34 m (3.15" x 2.55" x 1.33")			
VM1 = Valox [®] ; VM18 = PBT	PBT Valox 553 PBT Valox 553			
Glass Epoxy	Glass Epoxy	Glass Epoxy		

			<u> </u>			
Voltage	Cable	Quick Disconnect	Virtu 30	Quick Disconnect	Virtu 30	Quick Disconnect
Auto Slope	VM1-VA*	VM1/18-VA-Q*	PNP Sourcing NO	XX6V3A1PAM12	0-10 VDC	XX9V3A1F1M12
Direct Slope	VM1-VD*	VM1/18-VD-Q*	PNP Sourcing NC	XX6V3A1PBM12	4-20 mA	XX9V3A1C2M12
Inverse Slope	VM1-V1*	VM1/18-VI-Q*	NPN Sinking NO	XX6V3A1NAM12	Virtu 80	Quick Disconnect
Current	Cable	Quick Disconnect	NPN Sinking NC	XX6V3A1NBM12	0-10 VDC	XX9D1A1F1M12
Auto Slope	VM1-CA*	VM1/18-CA-Q*	Virtu 80	Quick Disconnect	4-20 mA	XX9D1A1C2M12
Direct Slope	VM1-CD*	VM1/18-CD-Q*	NPN Sinking NO	XX8D1A1NAM12		
Inverse Slope	VM1-CI*	VM1/18-CI-Q*	PNP Sourcing NO	XX8D1A1PAM12		

**Enhanced versions are ordered by changing the four digits in the model number as follows:

Default: Analog Minimum on Loss-of-Echo and at Power Up: VM1-VD0000-Q

Analog Maximum on Loss-of-Echo and at Power Up: VM1-VD1000-Q

Hold on Loss-of-Echo and Analog Minimum at Power Up: VM1-VD2000-Q

Hold on Loss-of-Echo and Analog Maximum at Power Up: VM1-VD3000-Q

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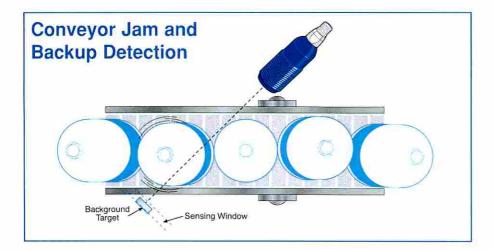


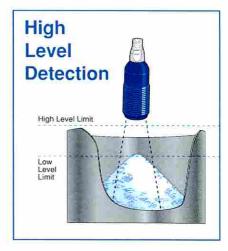
Virtu[™] Applications & Accessories

Applications

With the Virtu Ultrasonic sensors, users and OEMs can benefit from the advantages of ultrasonic technology where once only photoelectrics were used due to expense or distance constraints. Irrespective to color, opacity or material, the Virtu sensors are able to detect objects up to 1 m (39") away. Furthermore, the various Virtu sensors make it easy to mount in normally tough-to-install areas.

- Conveyor systems
- Assembly lines
- Robotic applications
- Tank filling applications





Accessories

PB100

Removable pushbutton teaching device



XSZCD101Y*

Straight 2 m (6.6') PVC cable



9006PA18

18 mm Bright-plated steel mounting brackets



PM100 - 02

Power and output conversion device for



XSZCD111Y*

Right angle 2 m (6.6') PVC cable



9006PA30

30 mm Bright-plated steel mounting brackets



XUZC24

24 mm diameter reflector



*5 m (16.4') cables available



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