

Features

- Heavy duty industrial design approved for Division 1 Group B areas
- Balanced bolt pattern for uniform sealing
- Realview™ indicator with 100% change in color visible from long distances

Construction

VR7	
	Type 4, 4x, 7 and 9 Div I, Class I,II,III, Groups B,C,D,E, F & G Div. 2, Class I, Groups A,B,C & D Class I, Zone I, AEx d IIB T6
Area Classifications	
Body	Low Copper Aluminum
Body Coating	Black Electrolytic Paint
Indicator Cover	Polycarbonate
Shaft	316 Stainless Steel
Bushings	Bronze (oil lite)
Hardware	Stainless Steel

Ambient Temperatures

Reed Switches: -40°F to 150°F (-40°C to 65°C)
 Mechanical Switches: -40°F to 170°F (-40°C to 77°C)
 Potentiometer/Transmitter -4°F to 140°F (-20°C to 60°C)
 ASi, DeviceNet Bus Card: -4°F to 140°F (-20°C to 60°C)
 IS FOUNDATION Fieldbus, Profibus PA: 32°F to 140°F (0°C to 60°C)
 NON-IS FOUNDATION Fieldbus: -40°F to 140°F (-40°C to 60°C)
(Contact ASCO for extended temperature range applications.)

Electrical

VR7 - Mechanical Switches

Gold Contacts
 Maximum 100mA@125/250VAC
 Minimum 4mA@5VDC

Silver Contacts
 Maximum 15A@125/250VAC
 Minimum 125mA@125/250VAC

VR7 - Reed Switches

Tungsten: 120VAC@3A or 24VDC@2A
 Maximum power allowable is 100 Watts or 100VA
 Minimum power required to ensure proper operation is 3W or 3VA

Rhodium: 24VDC@1A
 Maximum power allowable is 25 Watts
 Minimum current required to ensure proper operation is 10mA@3VDC

Rhodium (IS): 2mA to 1A@24VDC (suitable for IS applications)

“IS”- Class I,II,III, Div. 1,
 Groups A,B,C,D,E,F, and G
 Class I, Zone 0, AEx ia IIC T6
 Class I, Zone 1, AEx ib IIC T6

IS Inductive Proximity Switch

5-25 VDC <1mA absent target
 3-15 mA target present



ATEX category 1G, Intrinsic Safety Only
 II 1G EEx i a IIC T6
 KEMA 04ATEX 1025X
 Ambient Temperature: -18 to 170°F (-28 to 77°C)
 12 point terminal strip standard
NOTE: ASCO requires 12VDC valves for DeviceNet Network Cards and 24VDC for AS-interface Network Cards.

Optional Features

- Low power pilot valve mounted to enclosure
- Network Junction Box for hazardous areas
- AS-interface, Profibus-PA, DeviceNet, FOUNDATION Fieldbus communication cards
- 4 (standard) conduit entries in 3/4" or 20mm
- Plug, cable gland, and network connectors
- Potentiometer and transmitter options
- Alternate indicator color and path options

See list price schedule for available mounting brackets and adapters.

Specifications

Series	Shaft	Conduit ①	Indicator	Change Letter	Switches	# Sw.	Network Communications	Connector
VR7 Type 7 & 9 Aluminum	B=Non NAMUR 316 S.S. C=NAMUR 316 S.S.	6=(4) 3/4" NPT F 9=(4) M20x1.5 F	B=Blue/White D=Green/Red G=Green/White N=Flat Cover (None) R=Red/White T=3-way U=3-way Divert W=Red/Green Y=Yellow/Black	A	E=Reed SPDT Rhodium 1A* M=Reed SPDT Tungsten 3A* S=Reed SPDT Rhodium (IS)*	0 2	NG=None	A=Threaded Conduit
					A=Mech SPDT Silver 15A D=Mech DPDT 10A H=Mech SPDT Gold (IS) N=No Switch Q=NAMUR Proximity Sensor *Available with 2 switches only	0 1 2 3 4	NG=None RW=RS (0-1000 Ohms) Potentiometer* TY=CS (4-20 MA) Transmitter* * Available with (1) or (2) mechanical SPDT switches or (1) DPDT mechanical switch. Not available reed switches	
					W=Network/Bus Comm. Card	0	AJ=ASI 2x1, v2.1, 31s STD ADDR AL=ASI 2x1, v2.1, 62s EXT ADDR AK=ASI 4x2, v2.1, 31s STD ADDR AM=ASI 4x2, v2.1, 62s EXT ADDR DC=DNET 2x1 DE=DNET 2x1 Diagnostics DD=DNET 6x2 (M1), 2 out, single acting DH=DNET 6x2 (M2), 1 out, double acting DF=DNET 6x2 DIAG (M1), 2 out, single acting DJ=DNET 6x2 DIAG (M2), 1 out, double acting PA=Profibus-PA, Non-IS FA=FF with 24 VDC NON-IS FB=FF without 24 VDC IS PC=Profibus-PA, IS	
VR7	B	6	Y	A	A	2	NG	A

① Consult ASCO for optional pin connectors.

Ordering Number Example: VR7B6YAA2NGA

Dimensions Inches (mm)

