

Features

- Set switches on-line without opening the electrical enclosure
- Eliminates bracketry for all NAMUR type actuators
- Modular design for ease of field service
- Enclosures are internally and externally coated for corrosion resistance
- Realview™ indicator with 100% color change, visible from long distances
- Environmentally sealed magnets

Construction

	NR1	NR2
Area Classifications	Types 4, 4X, 7 & 9 Division 1 Class I, Groups C&D Class II, Groups E, F, & G Groups A & B, Division 2	Types 4, 4X, 7 & 9 Division 2 Class I, Groups C&D Class II, Groups F, & G Groups A & B, Division 2
Enclosure of Box	Low Copper Aluminum	
Box Coating	Black Polyester	Lt. Grey Impreglon 309™
Indicator Cover	Polycarbonate	
Screws	Stainless Steel	
Seals	NBR (Buna-N)	
Cam Rings	PBT (Polybutylene)	
Magnet Pack	Ryton™ (Polyphenylene Sulfide)	
Magnets	Nickel Plated Neodymium	

Impreglon 309 is a registered trademark of Impreglon Inc.
Ryton is a registered trademark of Chevron-Phillips Chemical Co.

Ambient Temperatures

- 4°F to 140°F (-20°C to 60°C) with Reed Switches
- 4°F to 140°F (-20°C to 60°C) with ASi, DeviceNet
- 32°F to 140°F (0°C to 60°C) with IS FOUNDATION Filedbus, Profibus PA
- 40°F to 140°F (-40°C to 60°C) with Non-IS FOUNDATION Filedbus

Electrical

Tungsten Switch Pack

Silicone Filled
Hermetically sealed
Housing: ABS
SPDT Form C
Operating Time: 3.0ms
Initial Contact Resistance: 0.5ohms
Electrical Rating: 3Amps/120VAC
2Amps/24VDC
Maximum power allowable is 100watts or 100VA
Minimum power required to ensure proper operation is 3watts or 3VA

Rhodium Switch Pack

Silicone Filled
Hermetically sealed
Housing: ABS
SPDT Form C
Operating Time: 3.0ms
Initial Contact Resistance: 0.1ohms
Electrical Rating: 1Amp/24VAC
Maximum power allowable is 25watts or 25VA
Minimum current required to ensure proper operation is 10mA at 3VDC



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)
6 extra terminal points for accessories

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
 - Attachable Network Junction Box
 - AS-interface, Profibus-PA, DeviceNet, FOUNDATION Filedbus communication cards
 - Up to 3 conduit entries in 3/4" or 20mm
 - 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
NR1 Type 4, 4X, 7, 9, Div. 1	A=Direct Mount	2=(2) 3/4" NPT F 4=(3) 3/4" NPT F 7=(2) M20x1.5 F 8=(3) M20x1.5 F	B=Blue/White D=Green/Red G=Green/White R=Red/White T=3-way U=3-way Divert W=Red/Green Y=Yellow/Black	A	G=Reed sw. SPDT Rhodium (IS) R=Reed sw. SPDT Rhodium 1A T=Reed sw. SPDT Tungsten 3A W=Network/Bus Comm. Card with internal switches	0 2	NG=None 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 FA=FF with 24VDC Non-IS FB=FF without 24VDC IS PA=Profibus-PA, Non-IS PC=Profibus-PA, IS	A=Threaded Conduit B*=M-12 pin connector for bus network C*=Mini (7/8") pin connector for bus network * Only available with switch option (W) Network/Bus Card. Not for Div. 1.
NR2 Type 4, 4X, Div. 2								
NR1	A	2	Y	A	T	2	NG	A

① Consult ASCO for optional pin connectors.

Ordering Number Example: NR1A2YAT2NGA

Dimensions Inches (mm)

