

RF Level Switch

FEATURES

- Modular Electronics
- Built-In Static Protection
- DPDT Relay
- Rugged Probe Designs
- Ambient Temperatures Up to 185°F (85°C)
- Explosion-Proof Enclosure
- 5, 10 or 15 Second Time Delay

OPTIONS

- Teflon or PVC Sheathed Probe or Cable
- Extended Lower Bushing
- Flanged Process Connections
- Epoxy Coated Aluminum Enclosure



APPLICATIONS

DRY BULK APPLICATIONS

- High or Low Level Alarm
- Plugged Chute Detection
- Fly Ash Hopper Level
- Pellets
- Granules
- Powders
- Chips
- Flakes

LIQUID APPLICATIONS

- High or Low Level Alarm
- Interface
- Slurries
- Flow / No Flow
- Liquid / Foam Interface
- Foams
- Conductive Products
- Non-Conductive Products
- Organic
- Inorganic

SPECIAL APPLICATIONS

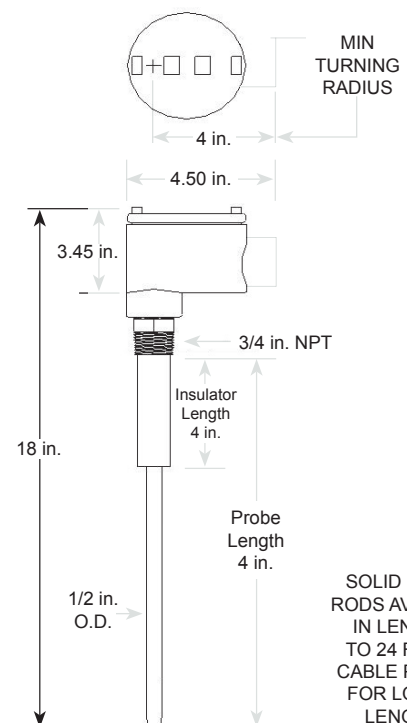
- High Temperature
- Corrosive Environments
- High Pressure
- Special Probe Materials

SPECIFICATIONS

Environmental	
Housing type	Explosion-Proof, Powder Coated, Copper Free Aluminum
Temperature	Electronics: -40 to 185° F / -40 to 85°C Ambient
Dielectric	Ideal: 10 or greater; Consult factory for probe selection on lower dielectric applications
Electrical	
Input Power	95-130 VAC, 50-60 Hz, 2 Watts; 9-35 VDC, 100 mA Max
Relay Contact Rating	Resistive: 5 Amp, 250 VAC; 5 Amp, 30 VDC; Inductive: 1/10 HP 125, 250 VAC
Sensitivity	With an initial load of 30 pF, an increase of 2.5 pF can be detected.
Static Protection	Maximum Surge Current: 100 amps; Clamp Voltage: 16 volts
Process Connection	3/4" NPT
Approvals	
Factory Mutual	XP-DIP-AIS / I,II,III / 1 / BCDEFG with all probes except type 5, S, U DIP-AIS / II, III / 1 / EFG with probe type 5, S, U NEMA 4



DIMENSIONS



ORDERING INFORMATION

A77/a/b/c/d/ef:

/a Operating Voltage

A	120 VAC
B	240 VAC
D	12 VDC / 24 VDC

/b Probe Type

		Operating Temp.	Hazardous Area Code	Operating Pressure
1	316SS Probe / 4" *Delrin® Lower Bushing	A	B	A
2	316SS Probe / 4" *Teflon® Lower Bushing	C	B	A
5	Fly Ash Probe / 8" 316SS Inactive Sheath	D	E	B
6	Bare Cable / 13" 316SS Weight	A	B	D
8	Teflon Covered Cable / 13" Nylon Weight	A	B	D
C	Bare Cable Superflex™ for External Mounting	n/a*	n/a*	n/a*
N	*Teflon® Covered Cable / 13" *Teflon® Weight	C	B	D
B	Macroprobe (3/4" OD Probe *Delrin® Bushing)	A	B	A
T	Macroprobe (3/4" OD Probe *Teflon® Bushing)	C	B	A
K	Quick Release Clamp Probe / 4" *Teflon® Bushing	A	B	A
L	Quick Release Clamp Probe / *Teflon® Sheathed Probe	A	B	A
R	*Teflon® Sheathed Probe / 316SS Mounting Nipple	C	B	A
S	*Teflon® Sheathed Probe / *Teflon® Mounting Nipple	C	E	D
U	Flush Mount Detector – Aluminum / *Delrin® Bushing	A	E	D

* Ambient & atmospheric conditions only

/c Probe Length

xxx Rigid Probe in Inches; Cable Probe in Feet

/d Options

O	No Options
C	Epoxy Coated Aluminum Enclosure
F	Flanged Connection (Specify Loose or Welded, SLG-0001-1)
L	Stainless Steel Tags
Z	Any special option (such as Extended Lower Bushing) not included in above description Delrin extended lower bushing Teflon extended lower bushing

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Operating Temperature Codes		Operating Pressure Codes	
A	-40 to 185°F / -40 to 85°C	A	1500 psi @ 77°F / 103 bar @ 25°C
B	-40 to 320°F / -40 to 160°C	B	Static Head Only (Consult Factory)
C	-40 to 450°F / -40 to 230°C	C	150 psi / 10.3 bar
D	200 to 1400°F / 95 to 760°C	D	100 psi / 7 bar
Hazardous Area Codes			
B	XP-DIP-AIS / I,II,III / 1/BCDEFG	E	DIP-AIS / II,III / 1 / EFG

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