

A02 RF Capacitance Level Switch

High sensitivity RF Level Switch K-TEK Products



Features

- Remote mounting up to 50 ft.
- Built-in static protection
- DPDT relay
- Ambient temperatures up to 185°F/85°C
- Explosion-proof enclosure
- 0 to 30 second time delay
- Temperature compensation
- Switching capacitance of 0.2 picofarads

Options

- Wide band differential control
- 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

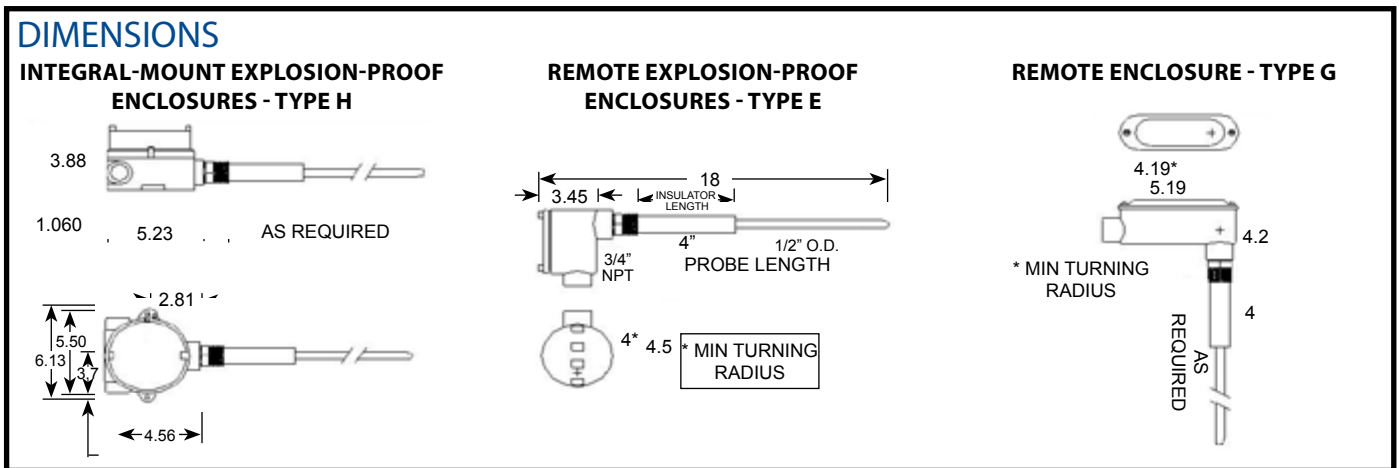
- High or low level alarm
- Interface
- Slurries
- Flow/no flow
- Liquid/foam interface
- Foams
- Conductive products
- Non-conductive products
- Organic
- Inorganic

Special Applications

- High temperature
- Corrosive environments
- High pressure
- Special probe materials

SPECIFICATIONS

Environmental	
Housing type	Explosion Proof, Polyurethane Enamel Coated, Copper Free Aluminum
Temperature	Electronics: -40 to 185° F / -40 to 85°C
Dielectric	Ideal: 2 or greater with standard probe; Consult factory for probe selection on lower dielectric applications.
Electrical	
Input Power	95-130 VAC, 50-60 Hz, 2 Watts; 180-260 VAC, 50-60 Hz; 24 VDC +/- 5%
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 0.2pF can be detected
Static Protection	Maximum Surge Current: 100 amps; Clamp Voltage: 75 volts
Process Connection	3/4" NPT Unless Otherwise Stated
Approvals	<div style="display: flex; align-items: center;">  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 </div>



ORDERING INFORMATION

A02/a/b/c/d/e:			
/a	Operating Voltage		
A	120 VAC		
B	240 VAC		
D	12 and 24 VDC		
/b	Probe Type	Operating Temperature	Operating Pressure
1	316SS Probe / 4" *Delrin® Lower Bushing	A	A
2	316SS Probe / 4" *Teflon® Lower Bushing	C	A
5	Fly Ash Probe / 8" 316SS Inactive Sheath	D	B
6	PVC Covered Cable / 13" 316SS Weight	A	D
8	PVC Covered Cable / 13" Nylon Weight	A	D
N	*Teflon® Covered Cable / 13" *Teflon® Weight	C	D
A	3 Terminal 316SS Probe-*Teflon® Insulator 316SS Shield	C	A
B	Macroprobe (3/4" OD Probe *Delrin® Bushing)	A	A
T	Macroprobe (3/4" OD Probe *Teflon® Bushing)	C	A
K	Quick Release Clamp Probe / 4" *Teflon® Bushing	A	A
L	Quick Release Clamp Probe / *Teflon® Sheathed Probe	A	A
R	*Teflon® Sheathed Probe / 316SS Mounting Nipple	C	A
S	*Teflon® Sheathed Probe / *Teflon® Mounting Nipple	C	D
U	Flush Mount Detector – Aluminum / *Delrin® Bushing	A	D
W	Concentric Shield 304SS / *Teflon® Sheathed Probe	A	A
X	*Teflon® Sheathed Probe / 316SS Inactive Sheath	A	A
*Registered Trademark of DuPont			
/c	Probe Length		
xxx	Rigid Probe in Inches; Cable Probe in Feet		
/d	Options		
O	No Options		
C	Epoxy Coating Aluminum Enclosure		
F	Flanged Connection (Specify Loose or Welded, SLG-0001-1)		
L	Stainless Steel Tags		
Z	Any special option not included in above description. Includes but not limited to: Extended Lower Bushing, 10 amp DPDT Relay (Not FM approved) or Remote-Mount Connector Cable		
/e	Enclosure		
H	Explosion Proof		
G	Remote NEMA 4		
E	Remote Explosion Proof		
Z	Special, Explain		
Note: Electrical enclosure is type H when remote mounted electronics are selected.			

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

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