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Level Switch Capacitance type **Model BLX**



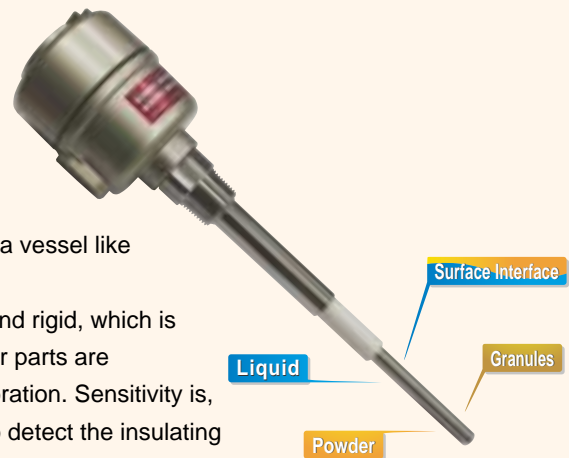
**Sophisticated, Rigid And Reliable
For Solids, Liquids And Interface
From Insulating Powder To Conductive Fluid
No Influence by contamination on a probe**

Model BLX

INTRODUCTION

BLX detects an existence or no existence of object in a vessel like silos or tanks, depending on a capacitance principle.

The composition of the sensor probe is quite simple and rigid, which is made by stainless steel and some insulators. Amplifier parts are surface-mounted on a PCB to increase strength to vibration. Sensitivity is, as same as the advanced model ALN, high enough to detect the insulating powder, grain and even foam. BLX is the integrated reliable level switch with thorough functionality.



FEATURES

No moving parts are contained

BLX works correctly based on the capacitance principle which does not require mechanical moving parts. This instrument thus assures the user very long life-expectancy.

Not affected by contamination on the probe

The electric circuit contains a sensitivity self-compensation function to automatically eliminate the influence caused by contamination. The instrument readjusts sensitivity by itself, depending on contamination.

High and stable sensitivity

The high sensitivity can stably detect even plastic powder or oil which has very low dielectric constant, ignoring the influence by contamination.

Foam can be detected (Optional)

Foam, like beer or soap foam, can be detected by the optional foam detection circuitry..

Improves strength to vibration

The surface-mounted PCB can stand for vibration better than ever.

Rigid probe stands for high pressure

The probe is well designed to stand for high pressure of 1MPa as standard.



APPLICATION (Industries) EXAMPLES

Food : animal food, flour, rice, grain, sugar

Cement : raw materials, product, clinker, dust,

Waste water : effluent, chemicals, sludge, scum

Brewery : grain, sweet wort, beer, foam,

Plastic : PVC, polyethylene, nylon, PET

Steel : Iron ore, lime, coke, slag, ash

Chemical : fertilizer, chemicals, petroleum

Ship : bilge, fuel oil, sea water, products

Power station : coal, ash, calcium carbonate, gypsum

STANDARD SPECIFICATION

POWER SOURCE : 105VAC/210VAC $\pm 10\%$ 50/60Hz

POWER CONSUMPTION : 3.5VA

OUTPUT CONTACT : SPDT \times 1

CONTACT CAPACITY : 250VAC 5A 30VDC 5A (Resistance load)
Minimum current load 10mA (24VDC)

STABLE DETECTION RANGE : 1. High sensitivity : 0.5 ~ 20pF
2. Standard sensitivity : 2 ~ 50pF

TEMPERATURE (AMPLIFIER) : -25 ~ +60 (NO CONDENSATION or FREEZING required)

TEMPERATURE (ELECTRODE) : -25 ~ +80 (Optional heatproof available)

PRESSURE (ELECTRODE) : 980kPa (10kgf/cm²)

LOPSIDED LOAD (ELECTRODE) : Load at tip (L=250) 1kN (100kg)

VIBRATION : 2.0mm 600 ~ 3,600/min, in all directions for 3 hours

IMPACT SHOCK : Electrode : 98m/s² (10G)

ENCLOSURE RATING : Drip-proof

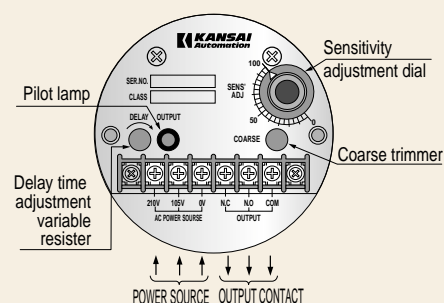
INSTALLATION : R1 (Other size or flange mounting available)

SENSITIVITY AND OBJECTS

Sensitivity		Objects
Class	Meaning	
1	High	PVC powder, Polyethylene pellet, Instant coffee, Flake, Flour, Grain, Oil, Vegetable oil, Petroleum, Cement, Lime, Rice, Animal food, etc.
2	Standard	Water, Sludge, Water solution, Interface, Dehydrated cake, etc.

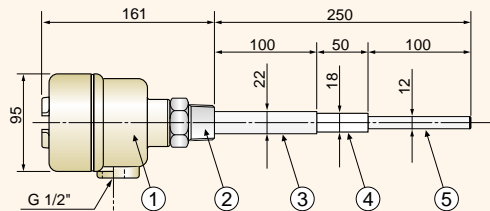


BUILT-IN AMPLIFIER



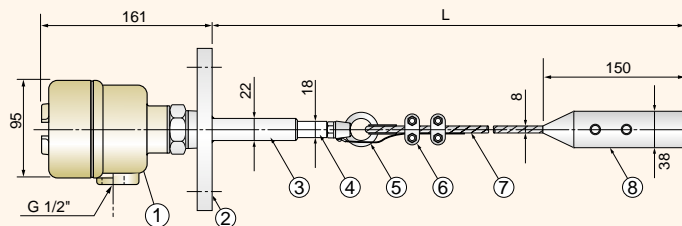
GENERAL DRAWINGS

Straight Rod model



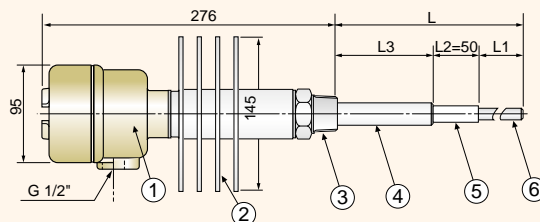
5	Detection Rod	304SS
4	Insulator	PA
3	Earth Electrode	304SS
2	Screw	304SS
1	Housing	ADC

Wire Rod model



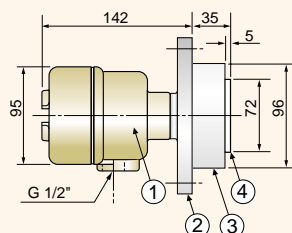
8	Weight	304SS
7	Wire Rod	304SS
6	Wire Clip	304SS
5	Nut	304SS
4	Insulator	PA
3	Earth Electrode	304SS
2	Flange	SS400
1	Housing	ADC

Heat-Resistant model



6	Detection Rod	304SS
5	Insulator	4F
4	Earth Electrode	304SS
3	Screw	304SS
2	Radiating Fin	AC
1	Housing	ADC

Flat Rod model



4	Detection Rod	304SS
3	Insulator	PA
2	Flange	304SS
1	Housing	ADC

Nuclear Power Generation to Rice Milling
All-round Manufacturer of Level Controllers for Powder, Granules and Liquid

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Line of business

Rotary Paddle Type Level Switch
Vibration Type Level Switch
Swing Type Level Switch
Acoustic Level Switch
Capacitance Type Level Switch
Capacitive Proximity Sensor
Capacitance Type Level Indicator
Diaphragm Type Level Switch
Tilt Switch
Leak Type Level Switch
Microwave Switch
Sounding Bob Type Level Indicator
Flow Switch

Conductance Type Level Switch
Float Switch
Float Type Level Indicator
Ultrasonic Type Level Indicator
Equipments For Conveyor Lines
Dust Monitor System
Zirconia Oxygen Analyzer
Laser Type Level Indicator
RADAR Type Level Indicator
On-line Sensors for Accurate
Liquid Analysis
Ultrasonic Flow meter

Agent

Please be sure to read USER'S GUIDE, Installation & Operation Instructions before using the instrument.
The specifications herein may be subject to change without advance notice.