Elimko

DETECTORS & TRANSMITTERS



E-CSS-100 SERIES CONDUCTIVITY TYPE LEVEL DETECTORS

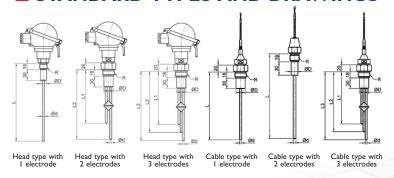
Conductivity type level detectors have wide range applications in detecting the level of fluids. E-CSS-100 series level detectors could be used for conductive liquids.

■ TECHNICAL SPECIFICATIONS

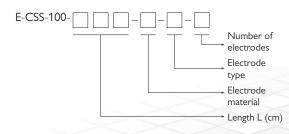
ELECTRONIC UNIT		
Power supply	220 V +5%, -10%	
Power consumption	4 VA	
Operating temperature	0-50°C	
Relay	1x(NO-0-NC) 250V/5A 2x(NO-0)	

ELECTRODE UNIT		
Pressure	2 Bars	
Operating temperature	0-100°C	
Max. length	200 cm	
Min. length	15 cm	
Protecting class	IP 65	
Connection	G½" or G1" male	

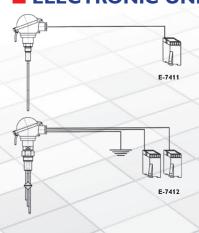
STANDARD TYPES AND DRAWINGS



HOW TO ORDER

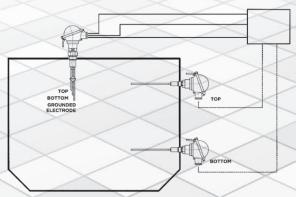


ELECTRONIC UNITS



LENGT	H (cm)	
Minimum	010	
Maximum	200	

Stainless Steel 304 P Stainless Steel 316 K St 35.8 D Copper B Special Ö



 $[\]ensuremath{^*}$ If the tank or vessel is not conductive, a separate electrode is used for grounding.

ELECTRO	DE TYPE
Head	K
Fixed Cable	S

NR. OF ELECTRODES		
One Electrode	1	
Two Electrodes	2	
Three Electrodes 3		

^{*} Application should be specified

APPLICATIONS

Conductivity of the liquid should be minimum 15 $\mu s/cm$

- Controlling of min, medium, max levels of liquids
- Protection of idle operation of motors
- Overflow protection

E-KSS-100 SERIES CAPACITIVE TYPE LEVEL DETECTORS

Capacitive type level detectors have wide range of applications in detecting the level of both liquids and solids. E-KSS-100 series level detectors operate on the principle of capacitance change.

■ TECHNICAL SPECIFICATIONS

Supply Voltage	15-30 Volt	
Supply Currency	20 mA max.	
Detection Distanc	0-50 mm	
Output	4-20 mA, Relay, NPN,	PNP
Output Currency	100 mA max.	
Pressure	2 Bars max.	
Operating	Electronic Unit	Electrode Unit
Temperature	0 - 50°C 0 - 100°C	
Maximum Length	Fixed Rod: 100 cm Flexible Electrode: 500 cm	
Minimum Length	10 cm	
Protection Class	IP 65	
Connection	1" NPT or G1"	

STRUCTURE

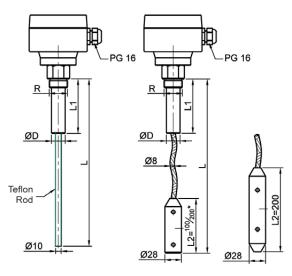
Capacitive level detectors consists of two units.

Detector Head: Cast aluminium head with electronic circuit

Electrode: There are two types of electrodes

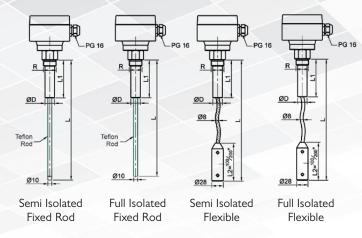
- a) Fixed rod electrode
- b) Flexible electrode

DRAWING



L1 = 50 mm L < 1 m L1 = 100 mm 1 m < L < 3 m L1 = 200 mm 3 m < L < 5 m

STANDARD TYPES



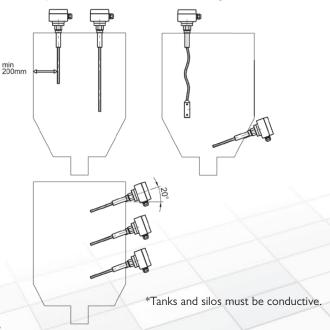
INDUSTRIES

- Oil
- Cement
- Plastic, Granule Plastic
- Flour
- Quartz Powder
- Coal
- Sugar

- Sand
- Grains, Crops
- Lime
- Acid
- Water
- Waste water
- Turbid water

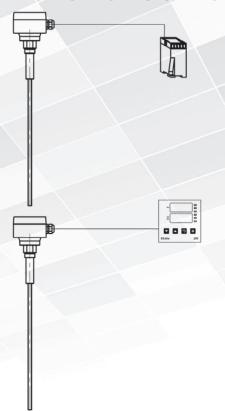
APPLICATION

Electrode is the most important unit in capacitive type level switches. Installation is very much important for satisfactory and reliable operation of level detectors for a long life.

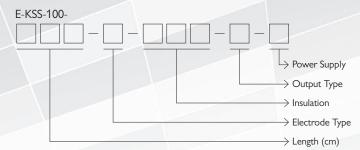


^{*} For fixed cable types, the length of cable should be indicated

ELECTRONIC UNITS







LENGTH	Min (cm)	 Max (cm)
Fixed	015	 100
Flexible	020	 500

Ç	Rod
Е	Flexible
O	UTPUT TYPE
TEF	Teflon

Not isolated

ELECTRODE

OUTPUT TYPE		2	4-20m
TEF	Teflon	РО	WER SU
TKF	Teflon Coating	0	220 V
PVC	PVC	1	18-30
KAU	Rubber		

OUTPUT TYPE	
0	Relay
1	Transmitter
2	4-20mA

POWER SUPPLY		
0	220 V 50 Hz	
1	18-30 VDC	

E-MSS-110 SERIES MOTORIZED TYPE LEVEL DETECTORS

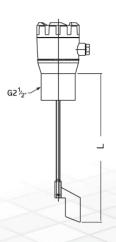
Motorized type level detectors have wide range of applications in detecting the levels of solid materials. They are preferred in many applications as they do not require maintance and repair after installation and they are economical.

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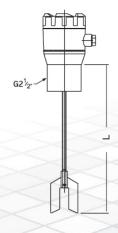
■ TECHNICAL SPECIFICATIONS

Power Supply	85-265 VAC / 85-375 VDC 14-26 VAC / 16-36 VDC
Power Consumption	Max. 2 W
Switching	1 RPM
Motor Speed	4-20 mA, Relay, NPN, PNP
Head Temperature	0 - 60°C
Electrode Temperature	0 - 100°C
Maximum Length	100 cm
Minimum Length	25 cm
Contact Capacity	250 V / 2A 1x(NO-0-NC)
Opening / Closing Number	500.000
Protection Class	IP 65
Connection	G2 ½" Male

STANDARD TYPES



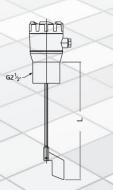


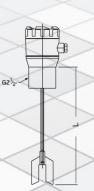


Double Blade

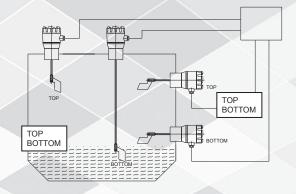
DRAWING







INSTALLATION



APPLICATION

- Grains, crops
- Coal powder
- Ore
- Cement
- Coal
- Plastic, granule plastic
- Flour
- Solids like given list

HOW TO ORDER



LENGTH (cm)	
Minimum	025
	:
Maximum	100**

J	BLADE 1	BLADE TYPE			
	Single Blade	T			
	Double Blade	С			

ELECTROD	ELECTRODE TYPE		
Fixed	S		
Flexible (Rope)	E		

	PROCESS MOUNTING	
	G2 ½" Coupling (Stainless Steel)	2
I	DN 65 PN 6 Flange (Stainless Steel)	4
	G1 ½" Coupling (Stainless Steel)	5

POWER SUPPLY	
85-265 VAC / 85-375 VDC	0
14-26 VAC / 16-36 VDC	1

For applications above 100 °C, contact Elimko.

- * Application must be fully specified when placing an order.
- ** Max. 50cm. length in horizontal mountage
- *** Flange thickness 4 mm

TEMPERATURE TRANSMITTER

Temperature Transmitters are supplied with 24 volts with two wires and 4-20 mA signal is received through the same lines

TECHNICAL SPECIFICATIONS

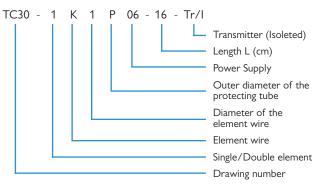
Accuracy	0.5
Operating (Head) Temperature	0-50°C
Power Supply	24 V dc
Cold Junction Compensation	0-40°C
Output	4-20 mA

■ HOW TO ORDER

User first chooses the thermocouple or the resistance thermometer. Elimko thermocouple or resistance thermometer catalogues are used for the selection.

At the end of the thermocouple or the resistance thermometer code the letters "Tr" is added.

EXAMPLE



CONNECTIONS

