

ELC level switches are used for checking liquid level of tanks and boilers. As it does not have any movable part, it can be used in the critical ambient and in the liquids with solid particle, low density and high viscosity.

Working Principle:

When liquid level comes to the level of isolated electrode, current passage starts or stops between electrode and liquid. Strengthened this AC current may be assessed with a relay circuit.



ELC LEVEL SENSORS

Conductivity Type

- ELC 09 , ELC 09f , ELC 09m
- ELC 10 , ELC 10m
- ELC 11 , ELC 11m
- ELC 12
- ELC 13
- ELC 20
- ELC 20f

Advantages :

- * Economical
- * Easy to install
- * Used at high temperature



Areas of Application :

It is an economic and safe solution for air pressure tank applications, water level control of steam boilers and conductive tanks.

LEVEL CONTROL RELAY



SK-P3
4 pcs. 5 A
Independent Relay

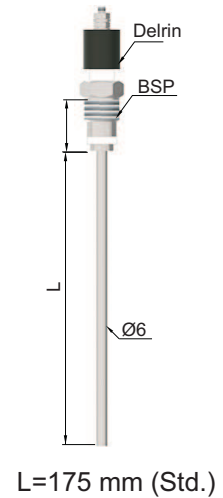
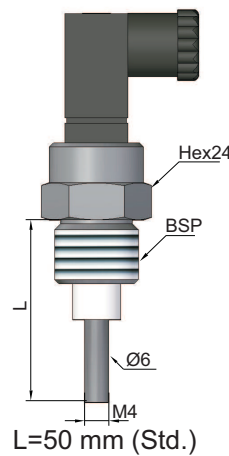
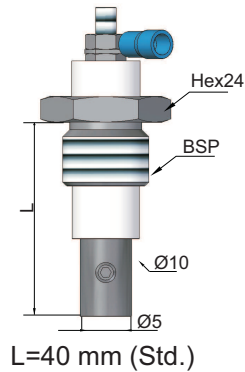


SK-P4
1 pc. 5 A Start - Stop Relay
+
2 pcs. 5 A Min. - Max. Relay

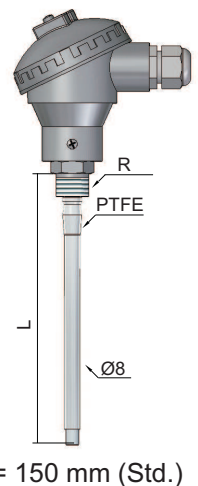
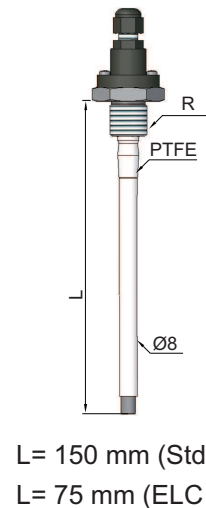
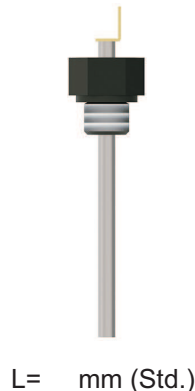
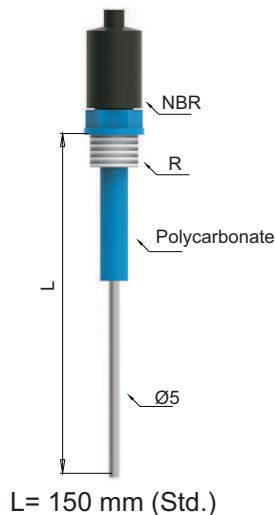
Model: 23-2019-005

Technical Specifications:

	ELC 09f	ELC 09	ELC 09m
Electrode Material	304 Stainless Steel Opt.316 Stainless Steel	304 Stainless Steel Opt.316 Stainless Steel	304 Stainless Steel Opt.316 Stainless Steel
Isolation of Electrode	PTFE	PTFE	Makaron
Connection Material	304 Stainless Steel Opt.316 Stainless Steel	304 Stainless Steel Opt.316 Stainless Steel	304 Stainless Steel
Max. Working Temp.	180 °C	160 °C	60 °C
Max. Working Pressure	10 bar	16 bar	6 bar
Mechanical Connection	3/8" BSP / 1/2" BSP	3/8" BSP / 1/2" BSP	3/8" BSP (Std)
Electrical Connection (R)	Cable	DIN 43650C	Cable



	ELC 10	ELC 10	ELC 11 / ELC 11m	ELC 12
Electrode Material	304 Stainless Steel Opt.316 Stainless Steel	304 Stainless Steel Opt.316 Stainless Steel	304 Stainless Steel Opt.316 Stainless Steel	304 Stainless Steel Opt.316 Stainless Steel
Isolation of Electrode	PP (Reinforced)	PP (Reinforced)	PTFE	PTFE
Connection Material	PP (Reinforced)	PP (Reinforced)	304 Stainless Steel Opt.316 Stainless Steel	304 Stainless Steel Opt.316 Stainless Steel
Housing	NBR	NBR	Delrin	Aluminum Injection
Max. Working Temp.	160 °C	160 °C	225 °C	225 °C
Max. Working Pressure	10 bar	10 bar	40 bar	16 bar
Mechanical Connection (R)	1/2" BSP(Std)	1/4" BSP(Std)	1/2" BSP(Std)	1/2" BSP(Std)
Electrical Connection	Cable	Cable	PG 7	Cable

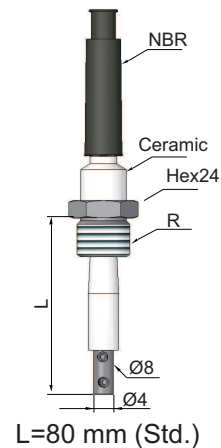
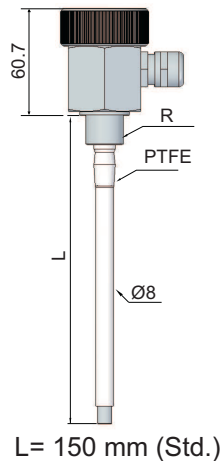


Technical Specifications:

ELC 13

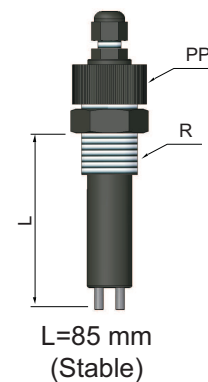
ELC 20f

Electrode Material	304 Stainless Steel Opt.316 Stainless Steel	304 Stainless Steel Opt.316 Stainless Steel
Isolation of Electrode	PTFE	PTFE
Connection Material	304 Stainless Steel Opt.316 Stainless Steel	304 Stainless Steel Opt.316 Stainless Steel
Housing	304 Stainless Steel Opt.316 Stainless Steel	-
Max. Working Temp.	225 °C	220 °C
Max. Working Pressure	16 bar	30 bar
Mechanical Connection (R)	1/2" BSP (Std)	3/8" BSP / 1/2" BSP (Std)
Electrical Connection	Cable	Cable



ELC 20

Electrode Material	304 St.St. Opt.316 St.St , Titanium
Body Material	PP
Max. Working Temp.	85 °C
Max. Working Pressure	10 Bar
Mechanical Connection (R)	3/4" BSP Male Thread
Electrical Connection	2 m. Cable , PG 7



Order Form : **Please consider sample models when coding!..**

1 MODEL ELC

Small Boiler Type.....09f	High Temperature Type.....11
Small Type with Socket.....09	HighTemperature Type with Aluminum Housing...12
Textile Type.....09m	High Temperature Type With Stainless Steel Housing 13
Economic Type.....10	Boiler Type.....20f
Economic Mini Type.....10m	Water Leakage Type.....20

2 CERTIFICATE

None.....0	(EN10204-3-1) Material Certification1
------------	---

3 CONNECTION

1/4"BSP	3/4" BSP.....005
3/8"BSP	Special.....x
1/2"BSP	

4 CONNECTION MATERIAL

304 Stainless Steel.....01	PP
316 Stainless Steel.....02	Special.....x

5 ELECTROD MATERIAL

304 Stainless Steel.....01	Titanum.....09
316 Stainless Steel.....02	Special.....x

6 HOUSING

None.....0	Aluminum Housing B96.....29
	Stainless Steel Housing41
	Special.....x

7 ELECTRICAL CONNECTION

Polyamide Small Socketed P01.....51	Silicon Cable (Max. 200 °C).....82
PVC Cable (Max. 105 °C).....81	With Cable.....99
	Special.....x

8 OPTIONAL

None...../ 0	Level Control Device...../ SK-P3
	Level Control Device...../ SK-P4
	Special.....x

SAMPLE : ELC 09f - 0 - 003 - 01 - 01 - 00 - 99 - 0
 ELC 09f - 3/8" BSP Connection and Electrode - 304 Stainless Steel - Cable Output