

DX-ELM level switches are used for checkin level of tank. It is preferred by machine manufacturers, especially in terms of its ease of use and economy.

The DX-ELM level switched can be mounted in litte places because of their mini design. The switches are made by stainless steel material and so can be used in various liquids.

Working Principle :

When magnetic field of magnet in the float is aligned with reed sensor in the tube , it opens or closes the electric circuit.

When float moves away , sensor reverts back (upon demand , drawn contact may be made). Level information can be assessed with a relay circuit.



Certification



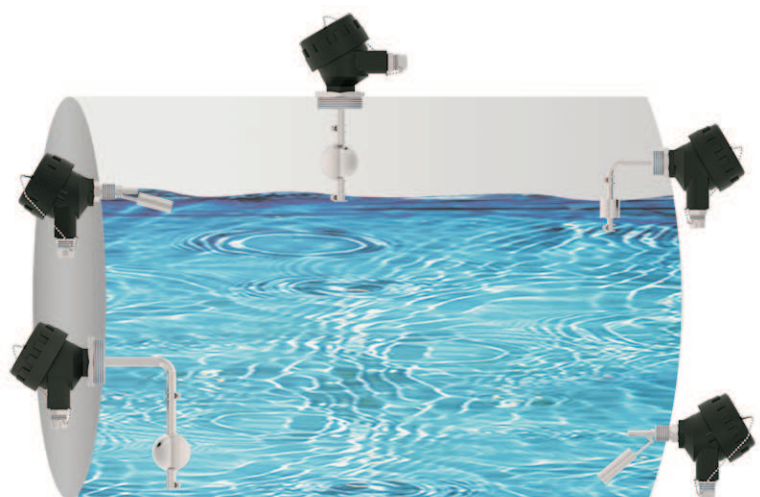
II 1/2G Ex db IIC TX¹ Ga/Gb for gas

II 1/2D Ex ta/tb IIIC TX² Da/Db for dust
-20°C ≤ Tamb ≤ +60°C , IP 66/68 (2 Metre / 2 Meters)

*Have a look at the temperature class chart.

Areas of Application :

Machines, tanks, boilers, gas and liquid mediums,
level measuring, temperature measuring...



DX-ELM

LEVEL SWITCH

DX-ELM31 , DX-ELM41 , DX-ELM51, DX-ELM51s

DX-ELM32 , DX-ELM42 , DX-ELM52

DX-ELM61s , DX-ELM64s

Advantages :

- * Economic.
- * Practical and easy installation.
- * Fast delivery.
- * Stainless steel material.

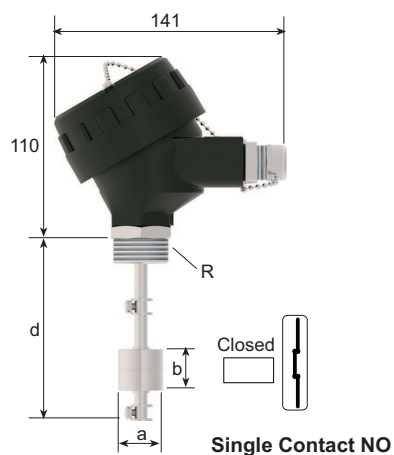
CE 1783



Technical Specifications :

	ELM 31	ELM 41	ELM 51
INSTALLITION	VERTICAL	VERTICAL	VERTICAL
Housing	Aluminium	Aluminium	Aluminium
Float Material	304 St. St. (Std.) Opt. 316 St. St.	316 St. St.	316 St. St.
Wetted Parts Material	304 St. St. (Std.) Opt. 316 St. St.	304 St. St. (Std.) Opt. 316 St. St.	304 St. St. (Std.) Opt. 316 St. St.
Pipe Material	304 St. St. (Std.) Opt. 316 St. St.	304 St. St. (Std.) Opt. 316 St. St.	304 St. St. (Std.) Opt. 316 St. St.
Float Type - a	S1Y-28 mm	S2A- 43 mm	S4A/S40A-52 mm
Working Temperature	Max. 125 °C	Max. 125 °C	Max. 125 °C
Mechanical Connection (R)	1" BSP	1 1/2" BSP	2" BSP
Max. Pressure (Bar)	10	30	30
Min. Density (g/cm ³)	0.80	0.80	0.80
Electrical Connection	Terminal	Terminal	Terminal
Number of Float	1 Std.	1 Std.	1 Std.
Number of Contact	1x SPST-NO (Std.)	1x SPST-NO (Std.)	1x SPST-NO (Std.)
Contact Current	1 A	1.5 A	1.5 A
Max. Contact Power	10 W / VA	50 W / VA	50 W / VA
Max.Switching Voltage	200 VDC / 140 VAC	200 VDC / 250 VAC	200 VDC / 250 VAC
Ambient temperature	(-)20 °C...(+)60 °C	(-)20 °C...(+)60 °C	(-)20 °C...(+)60 °C
Protection Class	IP 66 / 68	IP 66 / 68	IP 66 / 68

Note : All floats were tested with helium for leakoge

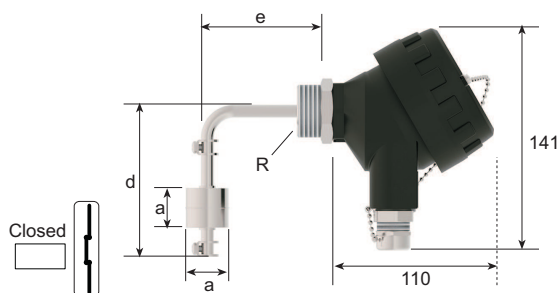


	DX-ELM 31	DX-ELM 41	DX-ELM 51
a	28	43	52
b	28	43	52
d	45	70	100
R	1/8" BSP or M10x1	1/8" BSP or M10x1	3/8" BSP or 1/2" BSP

All dimensions are given in mm.

Technical Specifications :

	DX-ELM 32	DX-ELM 42	DX-ELM 52
INSTALLITION	VERTICAL	VERTICAL	VERTICAL
Housing	Aluminium	Aluminium	Aluminium
Float Material	304 St. St. (Std.) Opt. 316 St. St.	316 St. St.	316 St. St.
Wetted Parts Material	304 St. St. (Std.) Opt. 316 St. St.	304 St. St. (Std.) Opt. 316 St. St.	304 St. St. (Std.) Opt. 316 St. St.
Pipe Material	304 St. St. (Std.) Opt. 316 St. St.	304 St. St. (Std.) Opt. 316 St. St.	304 St. St. (Std.) Opt. 316 St. St.
Float Type - a	S1Y-28 mm	S2A- 43 mm	S4A/S40A-52 mm
Working Temperature	Max. 125 °C	Max. 125 °C	Max. 125 °C
Mechanical Connection (R)	1" BSP	1 1/2" BSP	2" BSP
Max. Pressure (Bar)	10	30	30
Min. Density (g/cm ³)	0.80	0.80	0.80
Electrical Connection	Terminal	Terminal	Terminal
Number of Float	1 Std.	1 Std.	1 Std.
Number of Contact	1x SPST-NO (Std.)	1x SPST-NO (Std.)	1x SPST-NO (Std.)
Contact Current	1 A	1.5 A	1.5 A
Max. Contact Power	10 W / VA	50 W / VA	50 W / VA
Max.Switching Voltage	200 VDC / 140 VAC	200 VDC / 250 VAC	200 VDC / 250 VAC
Ambient temperature	(-)20 °C...(+)60 °C	(-)20 °C...(+)60 °C	(-)20 °C...(+)60 °C
Protection Class	IP 66 / 68	IP 66 / 68	IP 66 / 68


Single Contact NO

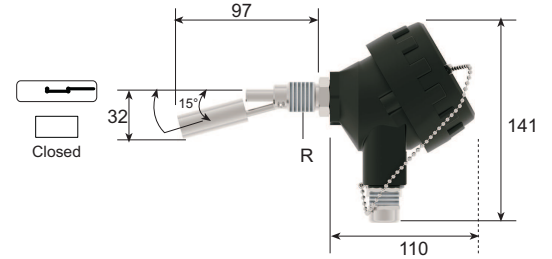
	DX-ELM 32	DX-ELM 42	DX-ELM 52
a	28	43	52
b	28	43	52
d	72	92	95
d	28	65	80
R	1/8" BSP or M10x1	1/8" BSP or M10x1	3/8" BSP or 1/2" BSP

All dimensions are given in mm.

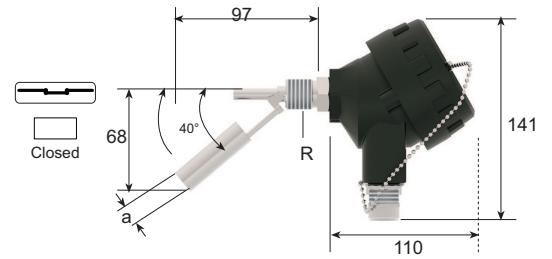
Technical Specifications :

	DX-ELM 61s	DX-ELM 64s
MONTAJ ŞEKLİ	HORIZONTAL	HORIZONTAL
Housing	Aluminium	Aluminium
Float Material	304 St. St.	304 St. St.
Wetted Parts Material	304 St. St.	304 St. St.
Pipe Material	304 St. St.	304 St. St.
Float Type-a	S3Y-17 mm	S3Y-1-17 mm
Working Temperature	Max. 125 °C	Max. 125 °C
Mechanical Connection	1 1/2 " BSP	1 1/2 " BSP
Max. Pressure (Bar)	5	5
Min. Density (g/cm ³)	0.70	0.70
Electrical Connection	Terminal	Terminal
Number of Float	1 Std.	1 Std.
Number of Contact	1x SPST-NO	1x SPST-NO
Contact Current	0.7 A	0.7 A
Max. Contact Power	10 W / VA	10 W / VA
Max.Switching Voltage	180 VDC / 130 VAC	180 VDC / 130 VAC
Ambient temperature	(-)20 °C...(+)60 °C	(-)20 °C...(+)60 °C
Protection Class	IP 66 / 68	IP 66 / 68

DX-ELM 61s



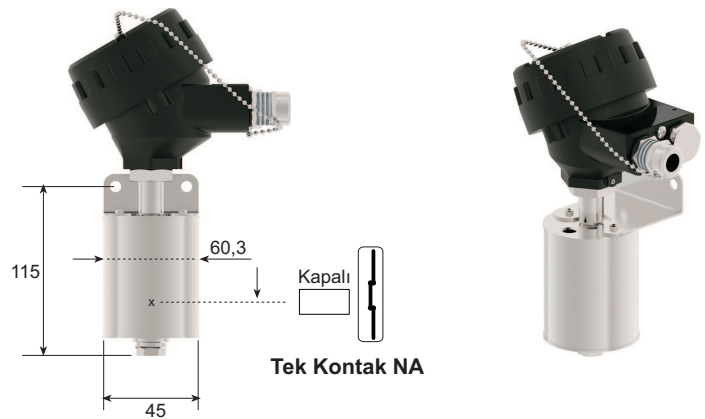
DX-ELM 64s



Technical Specifications :

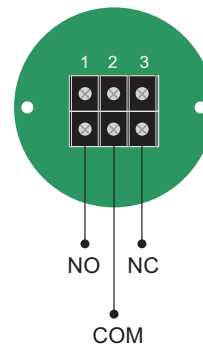
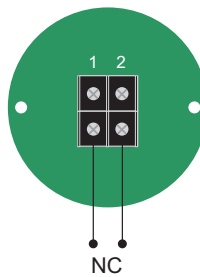
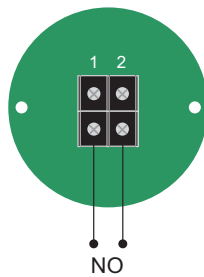
	DX-ELM 51s
INSTALLITION	VERTICAL
Housing	Aluminium
Float Material	304 St. St. (Std.) Opt. 316 St. St.
Wetted Parts Material	304 St. St. (Std.) Opt. 316 St. St.
Pipe Material	304 St. St. (Std.) Opt. 316 St. St.
Float Type-a	S40A-52 mm
Working Temperature	Max. 125 °C
Max. Pressure (Bar)	30
Min. Density (g/cm ³)	0.80
Electrical Connection	Terminal
Number of Float	1 Std.
Number of Contact	1x SPST-NO/VC
Contact Current	1.5 A
Max. Contact Power	50 W / VA
Max.Switching Voltage	200 VDC / 250 VAC
Ambient temperature	(-)20 °C...(+)60 °C
Protection Class	IP 66 / 68

DX-ELM 51s



All dimensions are given in mm.

Electrical Connection :



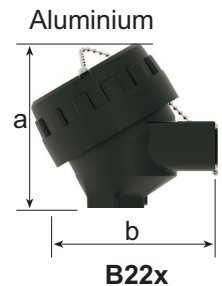
Housing:

ORDER CODE	TYPE	MATERIAL	PROTECTION CLASS	TEMPERATURE (°C)	SIZE a x b (mm)
750	B22x	Aluminium	IP 66 / 68	(-) 40...(+) 200	117 x 102

Cover Seal : NBR Nitrile Rubber 120 °C, Opt. FPM (Viton) 200 °C)

EU-Type Examination Certificate Number : TSE 22ATEX 0175U

The marking of the equipment :



Protection Case:



Material : 304 Stainless Steel
Welded manufacturing
Opens - Closes Hinged
To Protect Against external conditions.

Temperature Class Table

STD. MODEL	DX-ELM (Metal)
Working temperature	(-) 40 °C... (+) 125 °C
Without opening the cover standby time	30 min.

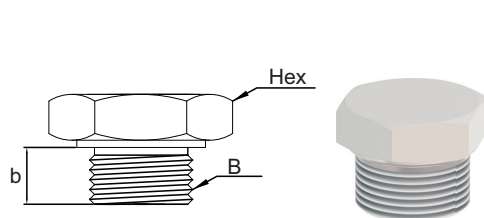
Thermal Protection Insurance is 105 °C

(-) 20° C < T Ambient < (+) 60° C		Working Temperature : (-) 50 °C... (+) 125 °C	GROUP II
DX-ELM (Metal)			
T Ambient MAX. AMBIENT TEMPERATURE ZONE 21 / 1	T Process MAX. PROCESS TEMPERATURE ZONE 20 / 0	TEMPERATURE CLASS	
60°C	<80°C	T6	
60°C	<95°C	T5	
60°C	<125°C	T4	

(-) 20° C < T Ambient < (+) 60° C		Working Temperature : (-) 50 °C... (+) 125 °C	GROUP III
DX-ELM (Metal)			
T Ambient MAX. AMBIENT TEMPERATURE ZONE 21 / 1	T Process MAX. PROCESS TEMPERATURE ZONE 20 / 0	TEMPERATURE CLASS	
60°C	<60°C	T60°C	

Mechanical Connection:

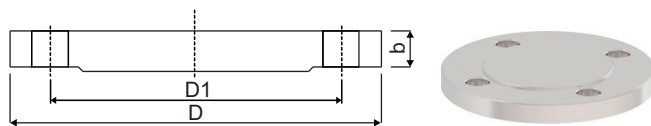
Thread (Connection has been welded with sensor)



(ISO 228-1)			
Order Code	Dimension (B)	Hex (mm)	Thread Length b (mm)
0003	3/8" BSP	27	14
0004	1/2" BSP	27	14
0005	3/4" BSP	32	14
0006	1" BSP	36	23
0008	1 1/4" BSP	51	23
0010	1 1/2" BSP	60	23
0012	2" BSP	70	23

(ISO 228-1)			
Order Code	Dimension (B)	Hex (mm)	Thread Length b (mm)
0305	M14x1,5	27	12
0306	M16x1,5	27	14
0307	M18x1,5	27	14
0203	1/2" NPT	27	16
0204	3/4" NPT	27	23
0205	1" NPT	27	23

Flanged (Connection has been welded with sensor)



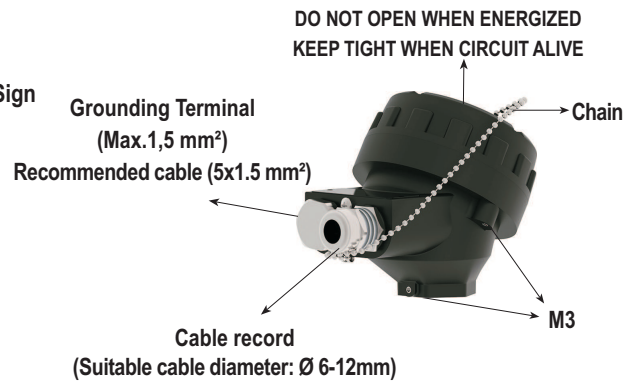
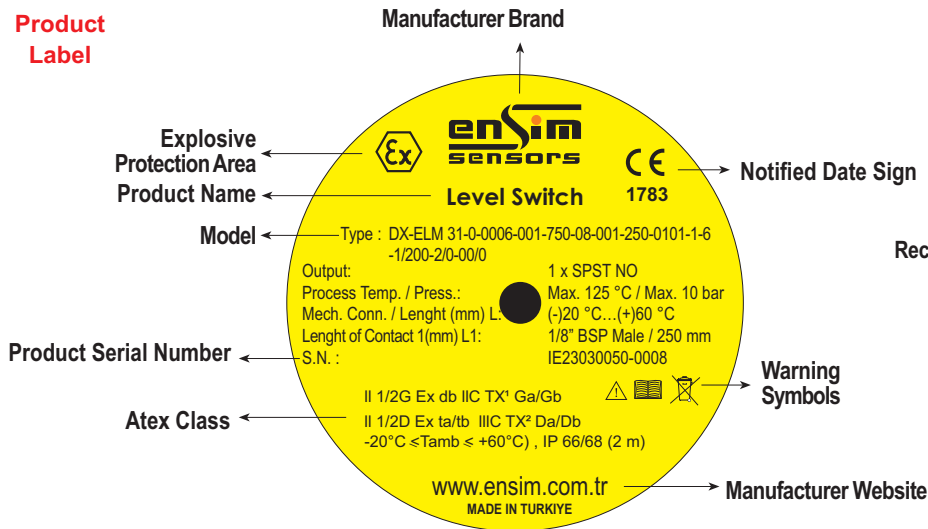
Order (ISO1092-1)				
Code	PN 16	D (mm)	D1 (mm)	b (mm)
0502	DN 25	165	85	16
0503	DN 32	140	100	16
0505	DN 50	165	125	18
0507	DN 80	200	160	20
0508	DN100	220	180	20

Order (ISO1092-1)				
Code	PN 40	D (mm)	D1 (mm)	b (mm)
0702	DN 25	115	85	18
0703	DN 32	140	100	20
0705	DN 50	165	125	20
0707	DN 80	200	160	20
0708	DN 100	235	190	24

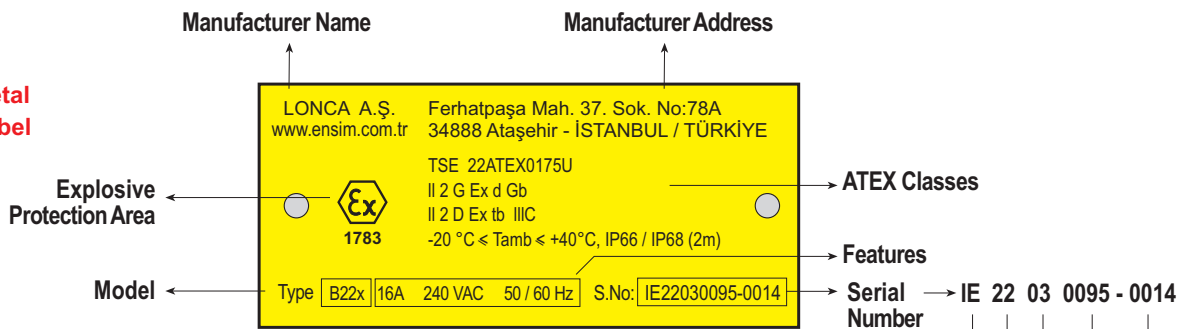
Order (ANSI B16.5)				
Code	150 LBS	D (mm)	D1 (mm)	b (mm)
1005	DN 50	152,4	121	19
1006	DN 65	177,8	139,7	22,2
1007	DN 80	190,5	152,4	23,8
1008	DN 100	228,6	157,2	23,8

All dimensions are stated as mm.

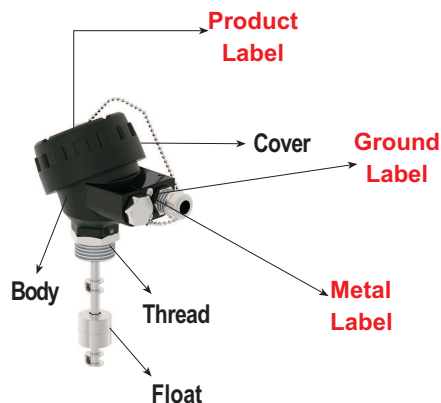
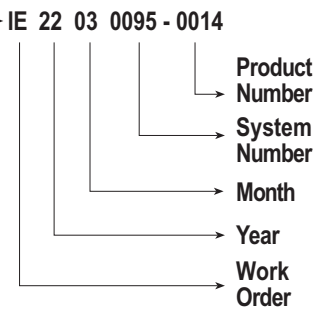
Product Label



Metal Label



Note : If the ATEX certificate metal label is damaged,
you can contact the manufacturer with the serial number.



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

1 MODEL DX-ELM

Horizontal Type, Ø 28 mm , L= 45 mm.....	31	With Cable, With Jacket (for bilge).....	51s
Vertical Type, Ø 28 mm , L= 72 mm	32	With Socket.....	61s
Horizontal Type, Ø 41 mm , L= 70 mm	41	With Socket OEM.....	64s
Vertical Type, Ø 41 mm , L= 92 mm	42		
Horizontal Type, Ø 52 mm , L= 80 mm	51		
Vertical Type, Ø 52 mm , L= 120 mm	52		
Horizontal Type, Ø 73 mm , L= 115 mm	71		
Vertical Type, Ø 73 mm , L= 125 mm	72		

2 CERTIFICATE

None.....	0	(EN10204-3-1) Material Certification.....	1
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3 CONNECTION (Bağlantı sensör ile kaynaklı yapıdadır)

1/8" BSP	0001	1/8 " NPT.....	0200
3/8" BSP.....	0003	1/4 " NPT.....	0201
1/2" BSP.....	0004	3/8 " NPT.....	0202
1" BSP.....	0006	1/2 " NPT.....	0203
1/2" BSP	0010	3/4 " NPT.....	0204
2" BSP.....	0012	1 " NPT.....	0205
1/2" BSP (Moving Type).....	0112	1 1/4 " NPT.....	0206
3/8" BSP Elbow Type.....	0109	1 1/2 " NPT.....	0207
1/2" BSP Elbow Type.....	0110	2 " NPT.....	0208
		DN 25 - PN16.....	0502
		DN 32 - PN16.....	0503
		DN 50 - PN16.....	0505
		DN 80 - PN16.....	0507
		DN 100 - PN16.....	0508
		Special.....	x

4 MATERIAL

304 St. St.	001	Special.....	x
316 St. St.	002		

5 HOUSING

Aluminium Housing, B22x , IP66 / 68.....	750
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6 PIPE SIZE (mm) Ø

8 mm.....	08	13 mm.....	13
10 mm.....	10	15 mm.....	15
12 mm.....	11		
12,7 mm.....	12		

7 MATERIAL

304 St. St.	001	316 St. St.	002
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8 STEM LENGTH(mm) L

.... mm

9a FLOAT MODEL

S1Y.....	0001	S41A.....	0114
S1A.....	0101	S42A.....	0115
S2A.....	0102	S52A.....	0118
S5A.....	0104	S53A.....	0119
S6A.....	0105	S54A.....	0120
S7A.....	0106	S38A.....	0227
S17A.....	0111	S51A.....	0228
S40A.....	0113		

9b FLOAT NUMBER

1.....	1	2.....	2
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10 CONTACT STRUCTURE

1 x NO (SPST) , 10 W / VA.....	6
1 x NC (SPST) , 10 W / VA.....	7
1 x NO / NC (SPDT) , 20W / VA.....	8

11a CONTACT NUMBER 1

Contact Number 1.....	1
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11b DISTANCE (mm) L1

Length (mm)...../..

12a CONTACT NUMBER 2

Contact Number 2.....	2
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12b DISTANCE (mm) L2

Length (mm)...../..

13 ELECTRICAL CONNECTION

With terminal.....	13
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14 OPTIONAL

None..... / 0	Float Housing...../ M
Wave Preventive Jacket, For ELM 31 and ELM 32..... / D1	Pt100 Sensor...../ P
Wave Preventive Jacket, For ELM 41 and ELM 42...../ D2	Special.....x
Wave Preventive Jacket, For ELM 51 and ELM 42...../ D3	

EXAMPLE

DX-ELM 31-0-0006-001-750-08-001-300-0101/1-7-250-2/10-13/0

DX-ELM 31, Straight Type , 304 St. St. , With Housing , NO Contact, L1=300 mm