DISPLACER LEVEL INDICATOR

EDW900 – Weather Proof Type
EDX900 – Explosion Proof Type

The NEW-FLOW Displacer Level Indicator are made to fit wide range applications such as pump control, waste water level and deep open tank. They are designed for high corrosive resistance and long service life. 900-Series are switch setting available and provide output signals 4~20mA.

Approvals:

CE TD0400TJ

SIL2 Certified

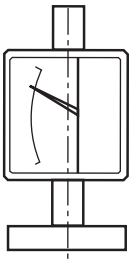
Switches with UL & CSA Recognized and File No. E41515.

Technical Data

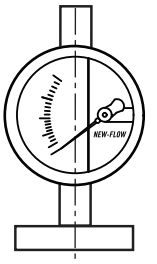
Case Material: Aluminum alloy case with paint; SS316 available
Body & Wetted Parts Material: SS316/SS316L, Indication via magnetic coupling (no sealed)
Scales Calibrated: in % or height
Range of Measurement: 300mm to 5M available; option on request
Connection Types: Flange type, Trip Clamp & Sanitary; Thread type (others on request)
Connection Size: 1½"~5"
Process Connection Rating: Thread type: NPT, BSP; Flange type: ANSI, DIN, JIS available
Max. Working Temperature: -50°C to +150°C (300°C option)
Max. Working Pressure: up to 100Bar; option on request
Protection Class: IP66 or Explosion Proof, Class I, Groups B, C & D;
Class II, Groups E, F & G; NEMA 4, 7, 9
Accuracy: ±2% F.S (±1.6% F.S option)
Conduit Connection: Female ½"NPT, ½"BSP, ¾"NPT, ¾"BSP; option on request
Alarm Switch: Micro switch, Inductive switch, Reed switch available
LCD Display:
– Totalizer 10 Digital (Top) / Flow rate 8 Digital (Bottom)
– Analog Output Available: 4~20mA (2-wires)
– Power Supply: 24VDC
***HART® Communication:** available
Two Wires Transmitter with HART® Protocol
– Galvanic Isolation
– Suitable for application in SIL2 installations

Housing Type

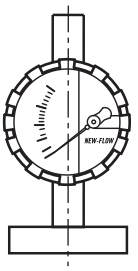
IP66
Case Type: (A-1) Rectangle Bolt Right Type
Housing Material: Aluminum alloy case with paint



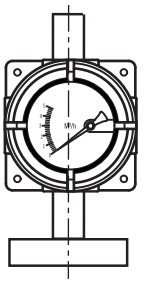
IP66
Case Type: (B-1) Round Bayonet Ring Type (only for indicating)
Housing Material: SS316



IP66
Case Type: (A-2) Round Screw Tight Type
Housing Material: Aluminum alloy
Case Type: (B-2) Round Screw Tight Type
Housing Material: SS316

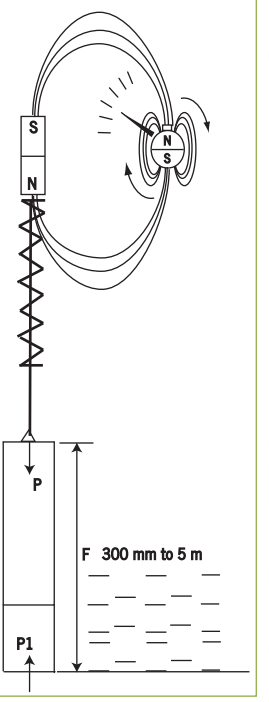


Explosion Proof
Housing Material: Aluminum alloy
Protection Class: Class I, Groups B, C & D; Class II, Groups E, F & G; NEMA 4, 7, 9



Mounting Length: 250mm standard
Connection size bigger than 3", mounting length is 300mm.

Principle



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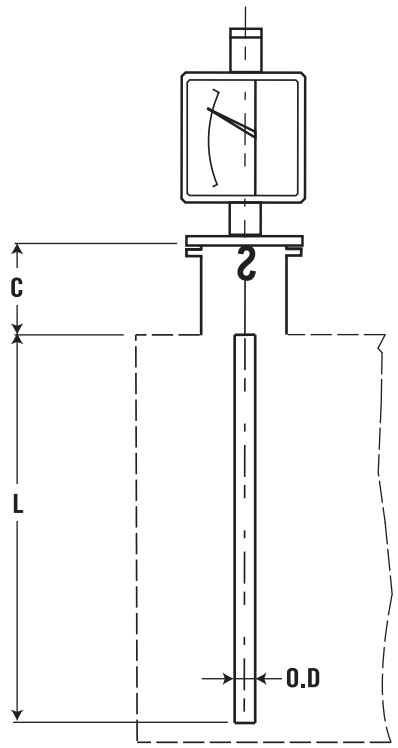
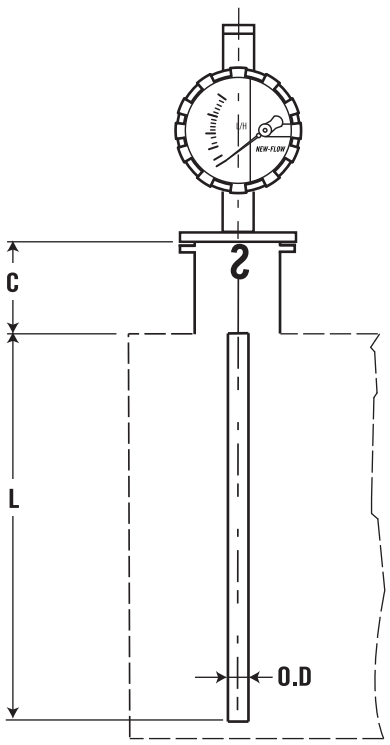
Dimension-mm

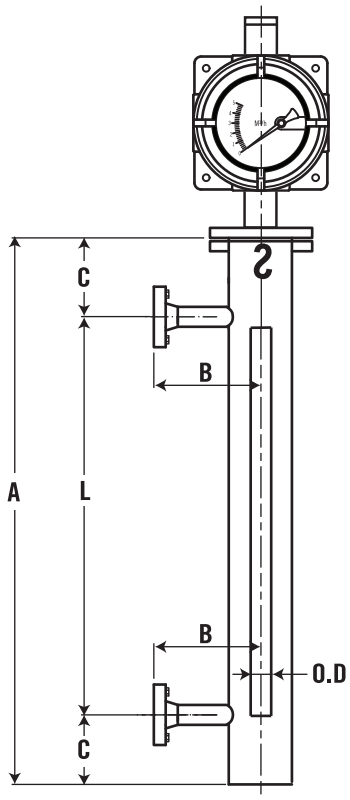
Rectangle Bolt Tight Housing



Round Screw Tight Housing



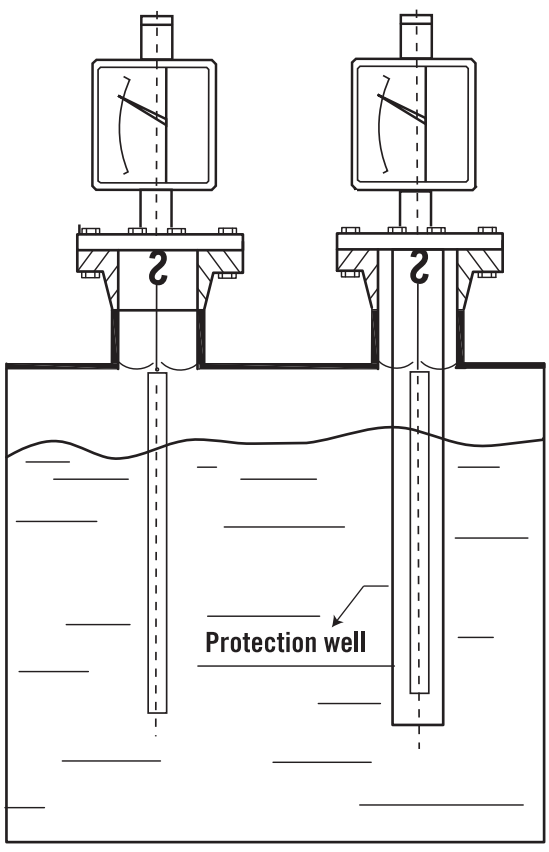
Explosion Proof Housing



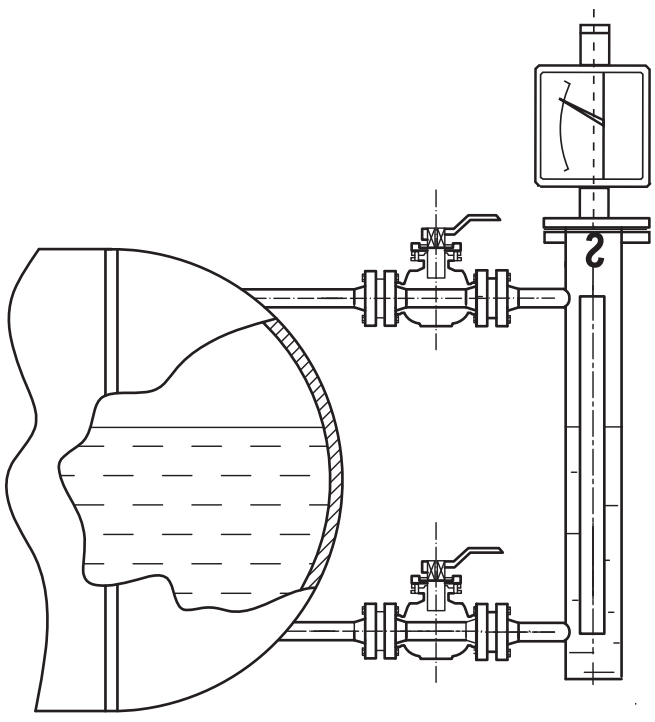
Installtion Type

(1) Direct Insertion Type

(2) Well Protection Type

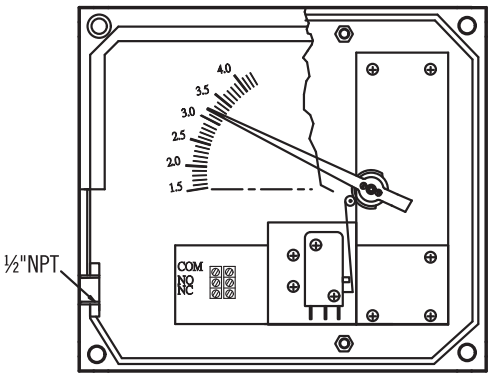


(3) With Chamber Type (Side Mounting)



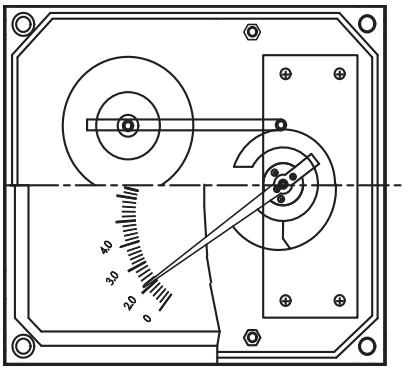
Alarm / Analog output

GS-M (Micro Switch)



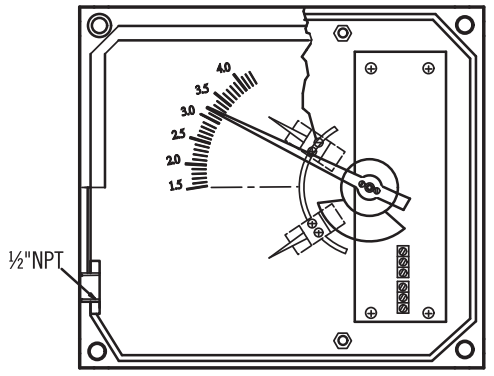
Adjustable Micro Switch, Series **EDW/EDX900/GS-M**
1 adjustable alarm contact
Load: 5A/125VAC, 5A/250VAC, 2A/30VDC
Temperature: -25°C ~ +100°C (AMB)
Hysteresis: ±10% F.S (Dead Band)

GT (Analog Output) / GTA (Hall Sensor)



Electric Transmitter **EDW/EDX900/GT**
Analog output available: 4~20 mA (2 wire)
No Alarm Switch Available
Power Supplier: 24Vdc
Temperature: +25°C ~ +100°C (AMB)

GS-C (Inductive Switch)



Ajustable inductive alarm switch
Hysteresis: ±1% F.S (Dead Band)
Inductive sensors slotted type:
3.5mm slot switch
DC. voltage 2 wire's to DIN19234 (NAMUR) for use in hazardous areas.
– Power supply: 8 Vdc (Ri.approx. 1kΩ)
– Current consumption: Active face uncoved 3mA
Active face coved 1mA
– Ambient temp: -25°C ~ +100°C

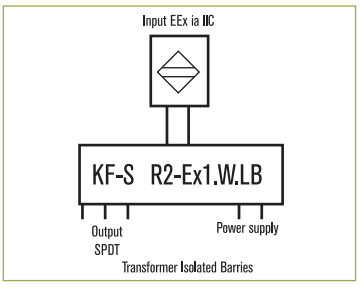
Isolated barriers output relay for inductive sensor:
– Rail mounting
– Control circuit EEx ia IIC
– EMC acc to NAMUR NE21
– Contact loading 250VAC 2A SPDT 40VDC 2A

1 adjustable alarm
Contact setting point should be within 10% to 100% of F.S

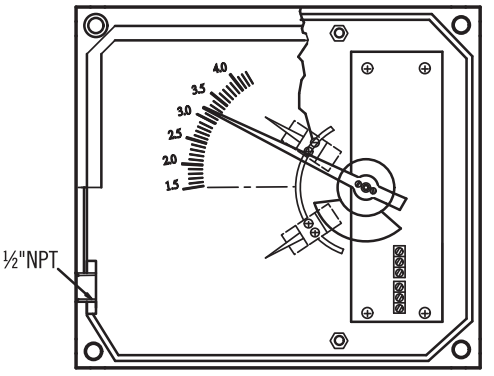
For 24VDC: KFD2-SR2-Ex1.W
115VAC: KFA5-SR2-Ex1.W
230VAC: KFA6-SR2-Ex1.W

2 adjustable alarm
The second setting point should be a gap 65% from first setting point.

For 24VDC: KFD2-SR2-Ex2.W
115VAC: KFA5-SR2-Ex2.W
230VAC: KFA6-SR2-Ex2.W



GS-R (Reed Switch)



Alarm Switch:
one or two setting points, form A bistable type (N.O. type)
Hysteresis:
±10% F.S (Dead Band)
Switch Rating:
AC 125V 0.5A / DC 100V 10W / Max. DC 250V< 40 mA

1 adjustable alarm
Contact setting point should be within 10% to 100% of F.S.

2 adjustable alarm
The second setting point should be a gap 40% from first setting point.

Ordering Information

EDW900 EDX900	Code	Type
	G	Indicating Only
	GS	Indicating + Switch
	GT	Indicating + 4~20mA (no alarm switch available)
SIL2 Certified	GTA	**Hall Sensor Type /** Indicating + 4~20mA (no alarm switch available)
	GTH	**HART Type /** Indicating + HART (no alarm switch available)

Code	Alarm
0	Without alarm switch
C1	One inductive alarm switch
C2	Two inductive alarm switches
M1	One micro switch
R1	One reed switch
R2	Two reed switches

Code	Housing Protection / Case Type / Material
A1	IP66 / Rectangle bolt tight type / Aluminum alloy
A2	IP66 / Round screw tight type / Aluminum alloy
B1	IP66 / Round bayonet ring type / SS316 (indicating only)
B2	IP66 / Round screw tight type / SS316
C	***(Ex. Certificate on Housing only)*** / Aluminum alloy Class I, Groups B, C & D; Class II, Groups E, F & G; NEMA 4, 7, 9

Code	Body & Wetted Parts Material
A	SS316 / SS316L, Standard
O	Option

Code	Connection Rating
0	Thread Connection
5	JIS 5K
10	JIS 10K
20	JIS 20K
15	ANSI 150#
30	ANSI 300#
60	ANSI 600#
90	ANSI 900#
T	Other:_____

Code	Connection Size
40B	1½"BSP (Male)
40N	1½"NPT (Male)
50B	2"BSP (Male)
50N	2"NPT (Male)
12F	1½" Flange
20F	2" Flange
22F	2½" Flange
30F	3" Flange
40F	4" Flange
50F	5" Flange

Code	Transmitter Type, 4~20mA
G	General Type
O	Without Transmitter

Code	Fluid & Sp. Gr.
	Please directly fill out the fluid and Sp. Gr.

Code	Insertion Length (max. 5M)
	Please directly fill out the level length in the ordering code.

Code	Installation Type
1	Direct Insertion Type
2	Well Protection Type
3	With Chamber Type

Code	LCD Display
DO	With LCD Display IP66, for A1 case only
D	With LCD Display Explosion Proof, (assemble with D-1000) **NOTE.1**
N	Without

Code	O.D (mm)
	Calculation by Manufacturer.

Code	Conduit
N	Without
1	½"NPT(F)
2	¾"NPT(F)

EDW900 EDX900						+								

NOTE.1 LCD Display:
Assemble with D-1000 Series