


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.

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

Approvals:



TD0400TJ

SIL2 Certified

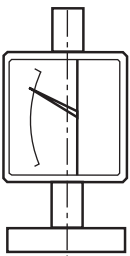


Switches with UL & CSA Recognized and File No. E41515.

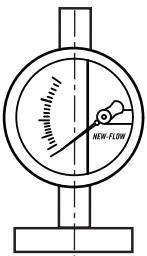


Housing Type

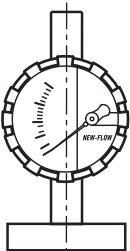
IP66
Case Type: (A-1) Rectangle Bolt Right Type
Housing Material: Aluminum alloy case with paint



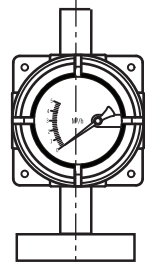
IP66
Case Type: (B-1) Round Bayonet Ring Type (only for indicating)
Housing Material: SS316



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

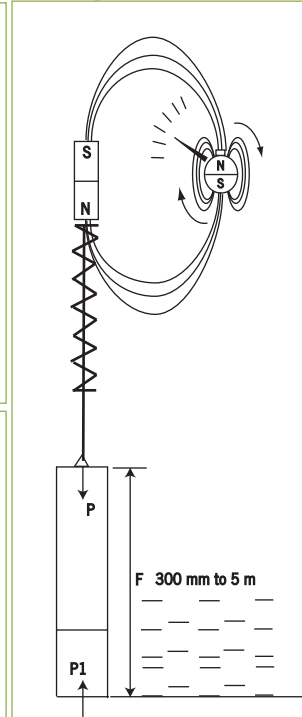


Explosion Proof
Housing Material: Aluminum alloy
Protection Class: Class I, Groups B, C & D; Class II, Groups E, F & G; NEMA 4, 7, 9



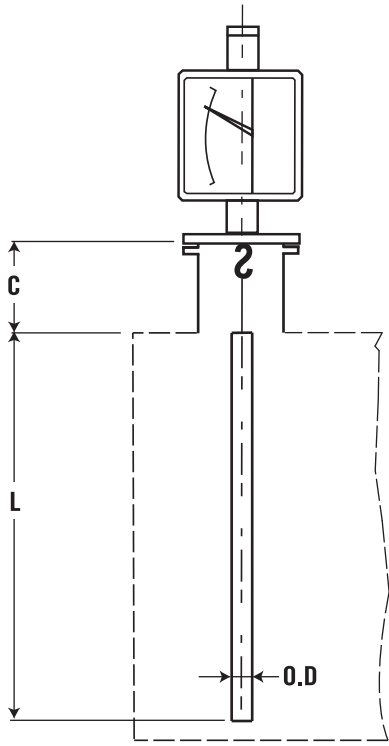
Mounting Length: 250mm standard
 Connection size bigger than 3", mounting length is 300mm.

Principle

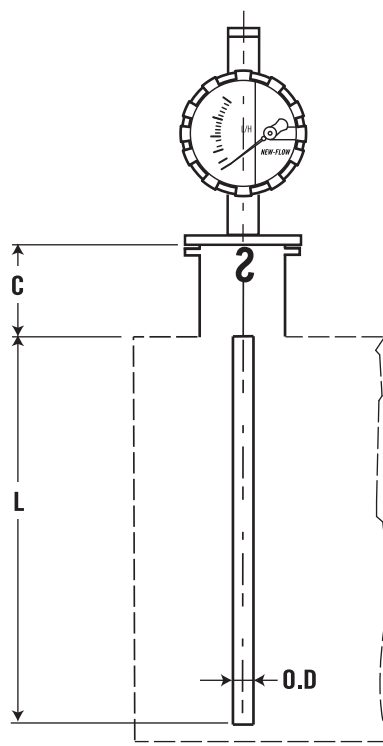


Dimension-mm

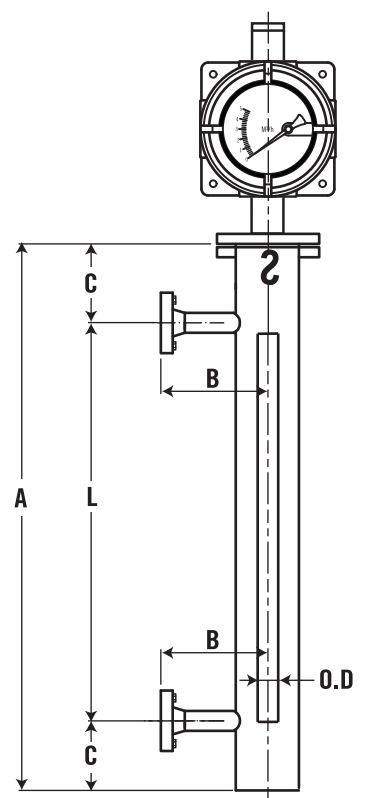
Rectangle Bolt Tight Housing



Round Screw Tight Housing



Explosion Proof Housing

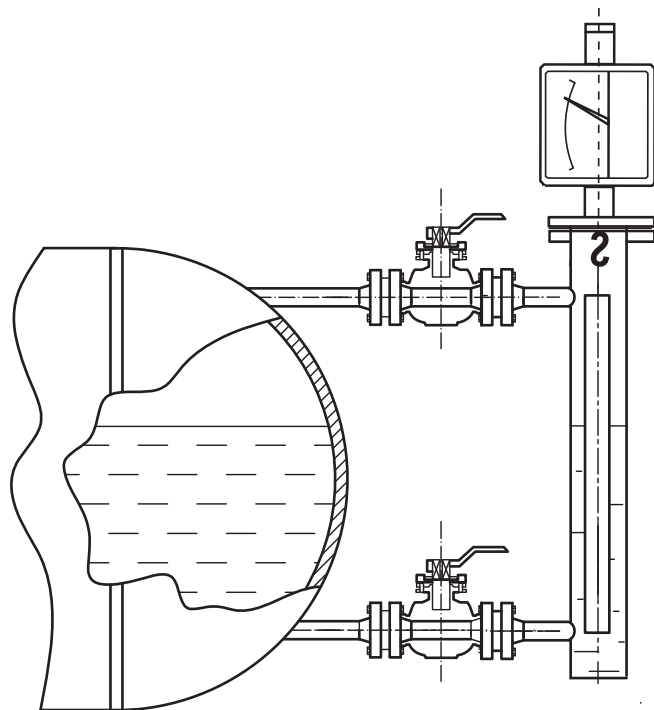
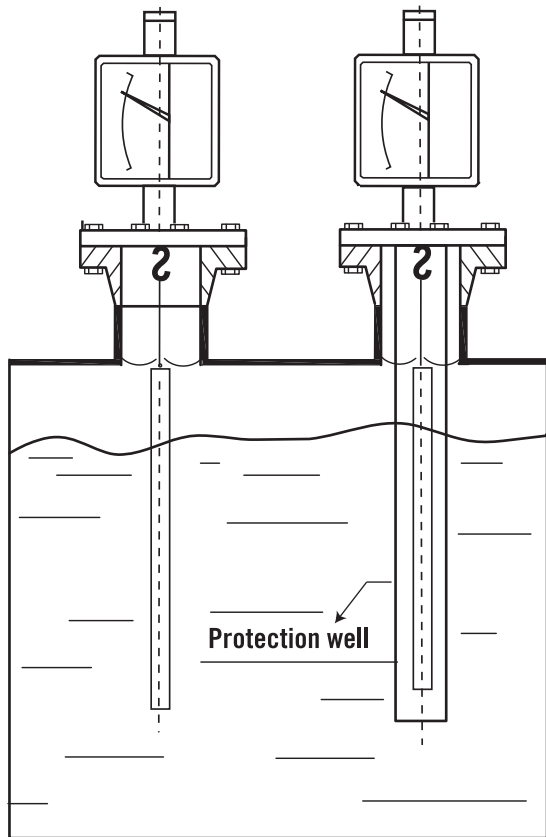


Installation Type

(1) Direct Insertion Type

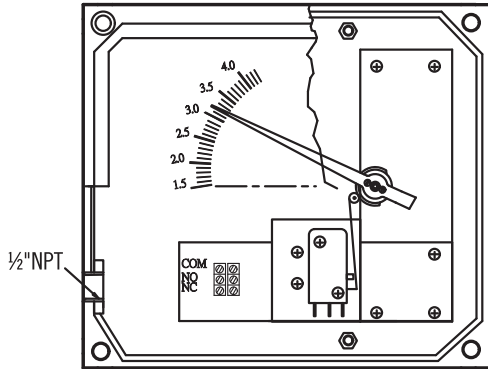
(2) Well Protection Type

(3) With Chamber Type (Side Mounting)



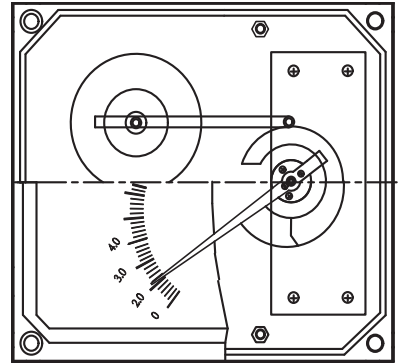
Alarm / Analog output

GS-M (Micro Switch)



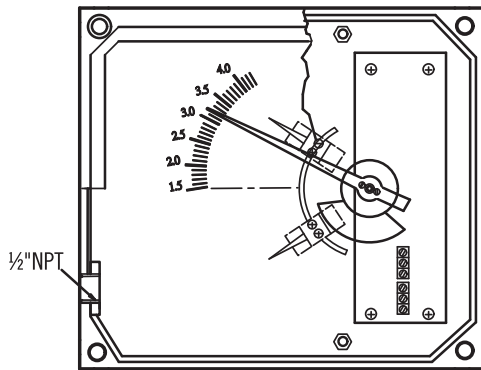
Adjustable Micro Switch, Series EDW/EDX900/GS-M
 1 adjustable alarm contact
 Load: 5A/125VAC, 5A/250VAC, 2A/30VDC
 Temperature: -25°C ~ +100°C (AMB)
 Hysteresis: $\pm 10\%$ F.S (Dead Band)

GT (Analog Output)



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: $\pm 1\%$ 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. 1k Ω)
- 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

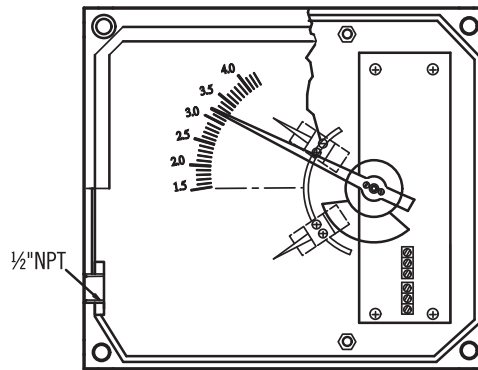
- For 24VDC: KFD2-SR2-Ex1.W
- 115VAC: KFA5-SR2-Ex1.W
- 230VAC: KFA6-SR2-Ex1.W

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:
 $\pm 10\%$ F.S (Dead Band)

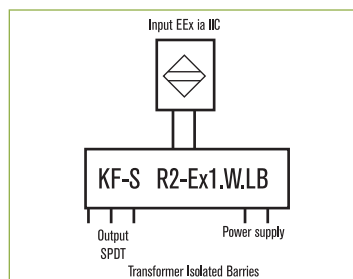
Switch Rating:
 AC 125V 0.5A / DC 100V 10W / Max. DC 250V < 40 mA

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	Code	Connection Size	
	G	Indicating Only	40B	1½" BSP (Male)	
SIL2 Certified	GS	Indicating + Switch	40N	1½" NPT (Male)	
	GT	Indicating + 4~20mA (no alarm switch available)	50B	2" BSP (Male)	
	GTA	Hall Sensor Type / Indicating + 4~20mA (no alarm switch available)	50N	2" NPT (Male)	
			12F	1½" Flange	
	GTH	HART Type / Indicating + HART [4~20mA/Intrinsically Safe (EExialICT6)] (no alarm switch available)	20F	2" Flange	
			22F	2½" Flange	
			30F	3" Flange	
			40F	4" Flange	
			50F	5" Flange	
			Code	Alarm	Code
O			Without alarm switch	G	IP66 (General Type)
C1			One inductive alarm switch	Ix.	Intrinsically Safe (EExialICT6), IP66 (only for HART)
C2	Two inductive alarm switches	O	Without Transmitter		
M1	One micro switch	Code	Fluid & Sp. Gr.		
R1	One reed switch		Please directly fill out the fluid and Sp. Gr.		
R2	Two reed switches	Code	Insertion Length (max. 5M)		
Code	Housing Protection / Case Type / Material		Please directly fill out the level length in the ordering code.		
A1	IP66 / Rectangle bolt tight type / Aluminum alloy	Code	Installation Type		
A2	IP66 / Round screw tight type / Aluminum alloy	1	Direct Insertion Type		
B1	IP66 / Round bayonet ring type / SS316 (indicating only)	2	Well Protection Type		
B2	IP66 / Round screw tight type / SS316	3	With Chamber Type		
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	*LCD Display		
		A	With IP66 (for A1)		
Code	Body & Wetted Parts Material	D	With *Explosion Proof (with D-1000)		
A	SS316 / SS316L, Standard	N	Without		
O	Option	Code	O.D (mm)		
Code	Connection Rating		Calculation by Manufacturer.		
O	Thread Connection	Code	Conduit		
5	JIS 5K	1	½" NPT(F)		
10	JIS 10K	2	Option		
20	JIS 20K				
15	ANSI 150#				
30	ANSI 300#				
60	ANSI 600#				
90	ANSI 900#				
T	Other: _____				

*LCD Display:
Assemble with
D-1000 Series

