


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) (on Rising Level)
- 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:

CE  TD0400TJ

SIL2 Certified

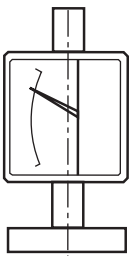
 Switches with UL & CSA Recognized and File No. E41515.



Housing Type

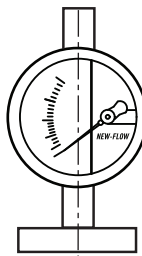
IP66

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



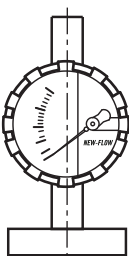
IP66

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



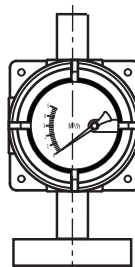
IP66

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



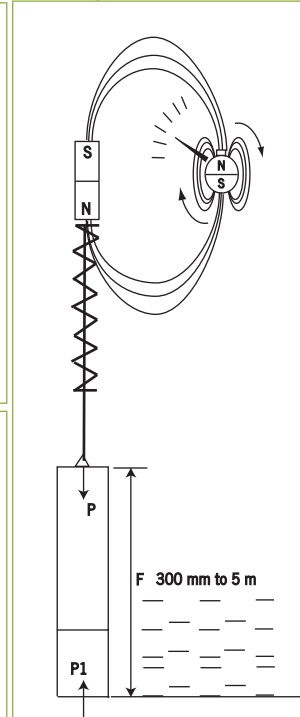
Explosion Proof

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



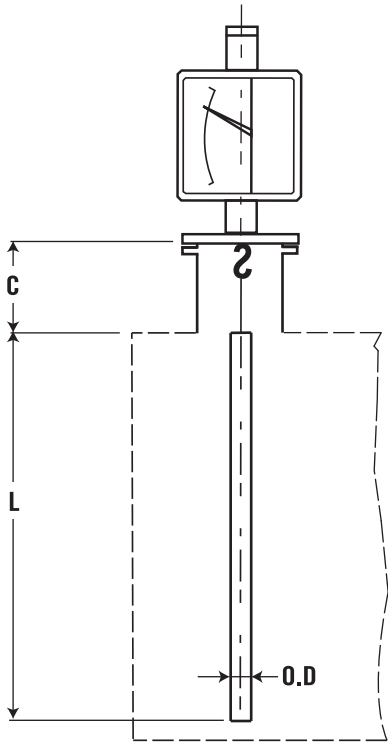
Mounting Length: 250mm standard
 Connection size bigger than 3", mounting length is 300mm.

Principle

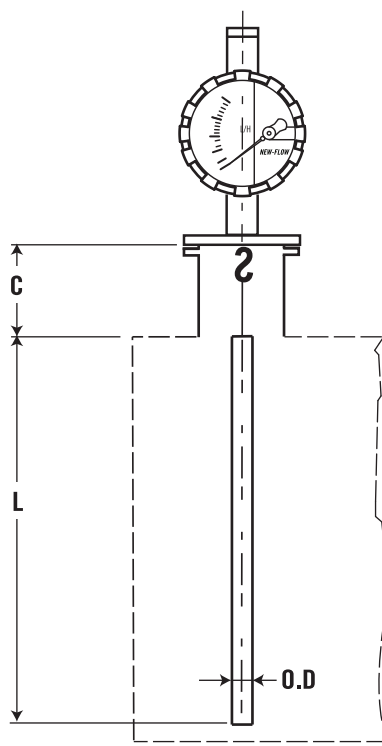


Dimension-mm

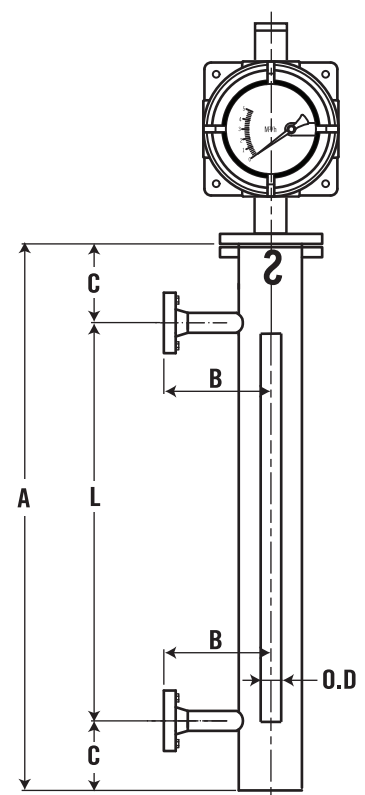
Rectangle Bolt Tight Housing



Round Screw Tight Housing



Explosion Proof Housing

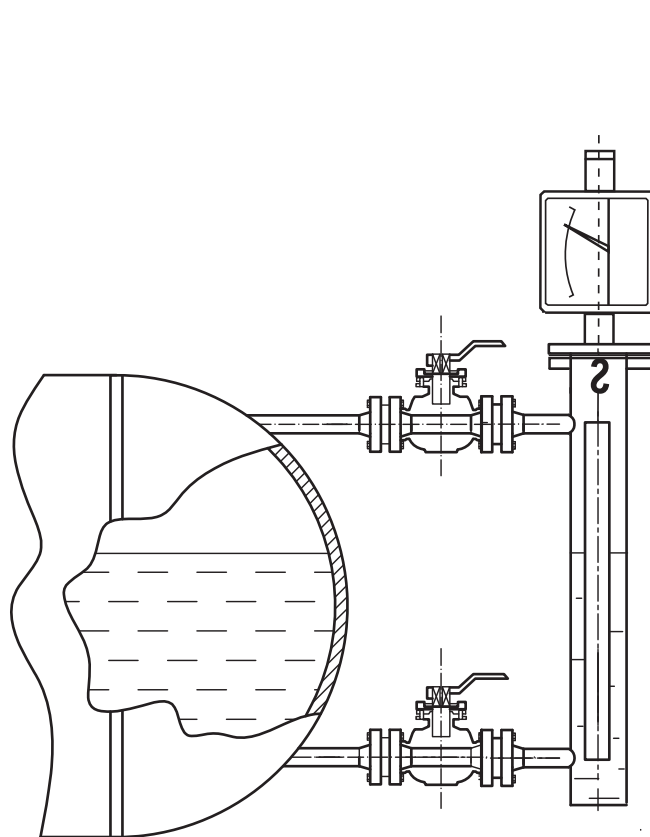
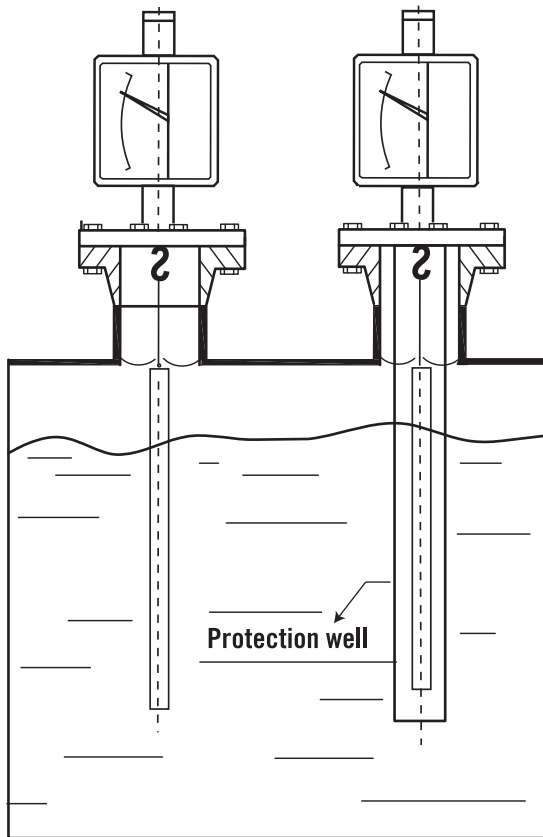


Installation Type

(1) Direct Insertion Type

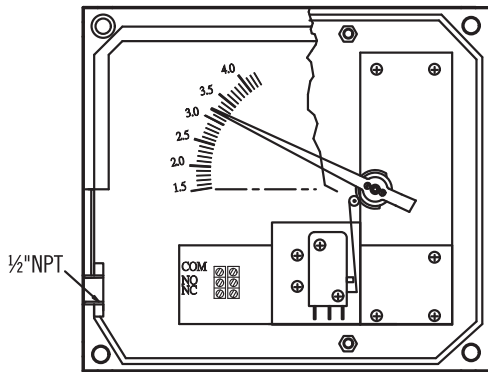
(2) Well Protection Type

(3) With Chamber Type (Side Mounting)



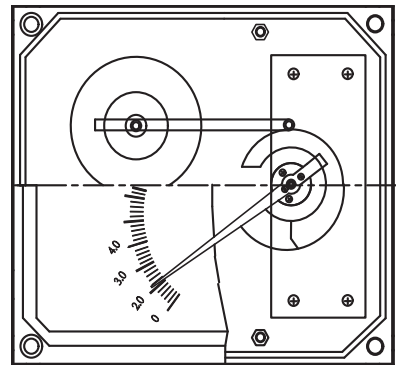
Alarm / Analog output

GS-M (Micro Switch)



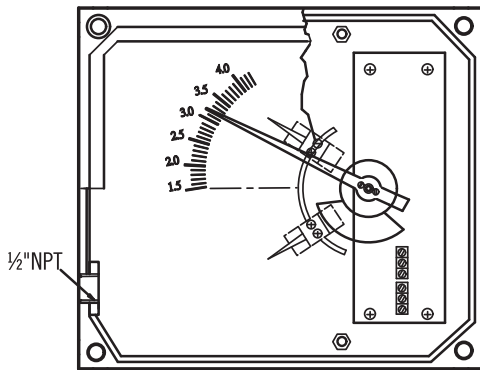
Adjustable Micro Switch, Series EDW/EDX900/GS-M
 1 adjustable alarm contact
 Load: 5A/125VAC, 5A/250VAC, 2A/30VDC
 Temperature: -25°C ~ +100°C (AMB)
 Hysteresis: ±10% F.S (Dead Band)

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)



Adjustable 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 uncovered 3mA
 Active face covered 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

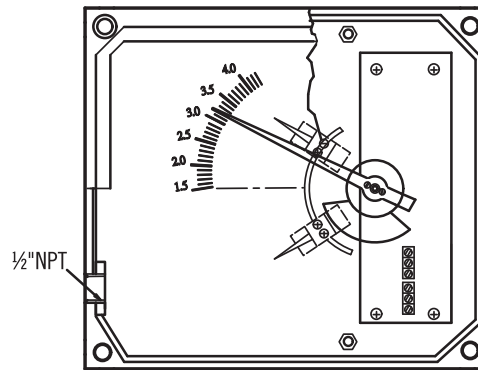
- For 24VDC: KFD2-SR2-Ex1.W
- 115VAC: KFA5-SR2-Ex1.W
- 230VAC: KFA6-SR2-Ex1.W

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)

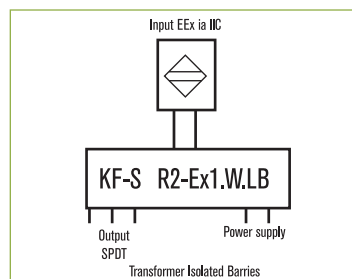
Switch Rating:
 AC 125V 0.5A / DC 100V 10W / Max. DC 250V < 40 mA

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 | 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 (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 | General Type |
| C1 | | | One inductive alarm switch | O | Without Transmitter |
| C2 | Two inductive alarm switches | Code | Fluid & Sp. Gr. | | |
| M1 | One micro switch | Please directly fill out the fluid and Sp. Gr. | | | |
| R1 | One reed switch | Code | Insertion Length (max. 5M) | | |
| R2 | Two reed switches | Please directly fill out the level length in the ordering code. | | | |
| Code | Housing Protection / Case Type / Material | Code | Installation Type | | |
| A1 | IP66 / Rectangle bolt tight type / Aluminum alloy | 1 | Direct Insertion Type | | |
| A2 | IP66 / Round screw tight type / Aluminum alloy | 2 | Well Protection Type | | |
| B1 | IP66 / Round bayonet ring type / SS316 (indicating only) | 3 | With Chamber Type | | |
| B2 | IP66 / Round screw tight type / SS316 | Code | LCD Display | | |
| C | (Ex. Certificate on Housing only) / Aluminum alloy Class I, Groups B, C & D; Class II, Groups E, F & G; NEMA 4, 7, 9 | DO | With LCD Display IP66, for A1 case only | | |
| | | D | With LCD Display Explosion Proof, (assemble with D-1000) NOTE.1 | | |
| Code | Body & Wetted Parts Material | N | Without | | |
| A | SS316 / SS316L, Standard | Code | O.D (mm) | | |
| O | Option | Calculation by Manufacturer. | | | |
| Code | Connection Rating | Code | Conduit | | |
| O | Thread Connection | N | Without | | |
| 5 | JIS 5K | 1 | ½" NPT(F) | | |
| 10 | JIS 10K | 2 | ¾" NPT(F) | | |
| 20 | JIS 20K | | | | |
| 15 | ANSI 150# | | | | |
| 30 | ANSI 300# | | | | |
| 60 | ANSI 600# | | | | |
| 90 | ANSI 900# | | | | |
| T | Other: _____ | | | | |

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

