



Excellent Design & Manufacture

Side Mounted Level Detectors

ENA501-010069-010 is a chambered horizontally oriented, float-operated level detector suitable for plant and OEM applications where open or closed contacts are required to signal the presence or absence of liquid at a discrete level. The float extension arm moves a magnet which actuates (de-actuates) an electromechanical detecting element.



ENA501-010069-010 may be used on a wider variety of applications and process conditions than any other single model of chambered level detector currently offered by EDM. The flexibility in this design is critical to customers all over the world in a wide variety of industries.

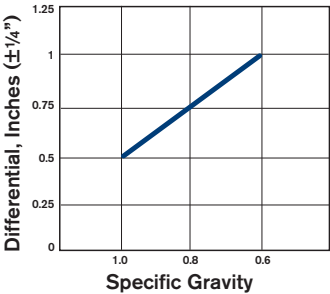
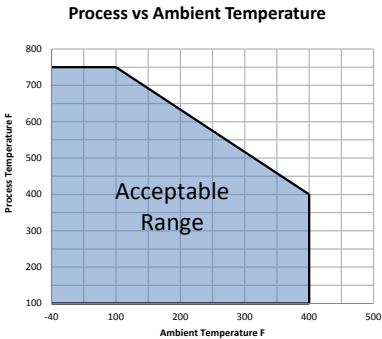
ENA501-010069-010 Horizontal Mechanical Level Detector suitable for most point level applications.

- drip legs
- boilers
- de-aerators
- high pressure feed-water heaters
- storage vessels
- low pressure feed-water heaters

Features and Benefits

- Five-year warranty
- Low maintenance costs
- Compact chamber design
- NEMA 4X "Quick-Release" cover
- Withstands temperatures up to 750°F (399°C)
- Withstands pressures up to 1799 psig (124 bar)
- Socket weld and NPT process connections available
- ASME Section IX and AWS D2.1 qualified welding system
- Designed to ANSI/ASME B31.1 and B31.3 guidelines
- Stainless steel switching mechanisms
- All stainless steel wetted parts
- Quick worldwide delivery
- Only ASTM grade materials with certified mill test reports used
- CSA certified for Ordinary Locations in U.S. and Canada
- **Safety Certified to IEC 61508 (SIL)**
EDM products are certified to IEC 61508 for non-redundant use in SIL1 and SIL2 Safety Instrumented Systems for most models. For more details or values applicable to a specific product, see the Safety Integrity Level Quick Guide.

Product Specifications

Mounting		Differential (Dead Band)	
Orientation	Horizontal mount only		
Float Material		Detect Process Temperature vs. Ambient Temperature	
Chamber Material			
Schedule 40 106 Grade B			
Carbon Steel with A105 and A234-WPB fittings			
Orientation & Connection Size/Type			
Horizontal Chamber with 1" Socket Weld Top/Bottom Process Connections			
Maximum Process Pressure	at 100°F (38°C) 1435 psi (99 bar)		
Process Temperature Range*	(-40 to 750°F) (-40 to 399°C)		
Electrical			
Detect type	SPDT snap detect		
Contact rating	0.1A-6A at 250 VAC		
Contact material	Silver Plated		
Housing material	Aluminum		
Conduit connection size	1" NPT		
Minimum Specific Gravity	0.60 SG		
Agency Listing	CSA Certified (US & Canada) Ordinary Locations		
Design Code	ANSI B31.1 or ANSI B31.3 Certificate available		
Weight			
With Chamber	22 lbs. (10 kg)		

Maximum Operating Pressure Ratings

Chamber Description	Pressure at Listed Temperature in psig (bar)								
	100°F (38°C)	200°F (93°C)	300°F (149°C)	400°F (204°C)	500°F (260°C)	600°F (316°C)	650°F (343°C)	700°F (371°C)	750°F (399°C)
S40 Carbon Steel (includes float)	1435 (99)	1435 (99)	1435 (99)	1435 (99)	1435 (99)	1435 (99)	1435 (99)	1378 (95)	1244 (86)

Side Mounted Level Detector



ENA501-010069-010 unit allows for a smaller chamber size making it more compact and economical than most traditional vertical chambers. Although ENA501-010069-010 is more compact, it provides the rugged reliability customers have come to expect from EDM.

The design starts with a high pressure float counter-weighted with a magnet. The magnet is coupled with another magnet inside the housing which is attached to the detecting mechanism. The key is that the two magnets are separated by a pressure retaining wall of non-magnetic material. The magnets interact with each other as the float goes up and down, providing a safe and reliable system you can depend on for the most critical of applications. ENA501-010069-010 features a NEMA 4X, Quick-Release cover. Approximately 1 1/4 turns are needed to remove/replace the cover for service or maintenance.

