

2910 Float & Tape Level Switch Transmitter

Activate alarms or relays with SPDT cam-operated level switches

Varec[®]

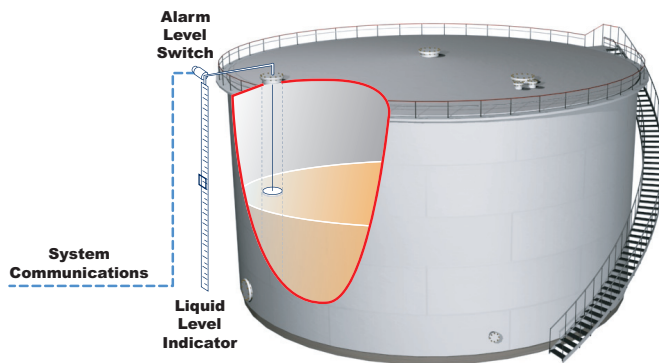


Highlights

- Easy in-service installation - mounts directly to most mechanical tank gauges, including Varec, GSI, L&J and Sakura
- Activate alarms or relays with; 2, 4, or 6 SPDT cam-operated switches (as option)
- No battery back-up is required - maintains the correct level reading during and after a power outage
- cFMus (USA and Canada), IECEx and ATEX approved for use in hazardous areas
- IP66, NEMA Type 4 enclosure rating
- Replaces the Varec 2557 Alarm Limit Switch in all applications

Applications

The 2920 Float & Tape Level Switch Transmitter is a cam-operated switch designed to mount directly to Automatic Tank Gauges. The two, four, or six switches may be used to operate lamps, relays, motors, or solenoid valves providing the load does not exceed ½ HP at 250 volts AC..



Example Tank Gauging System

Typically, the unit must operate over the range denoted by the height of the tank. Therefore, in most cases, the range of the unit selected is equal or greater than the tank height. As an example, an application involving the closure of limit switches upon reaching high and low limits of tank capacity would involve two switches – one for the high set point and one for the low.

Technical Specifications

Performance

Accuracy	+/- 1/16" (1.58 mm)
Repeatability	+/- 1/16" (1.58 mm)

Environmental

Operating temperature	-40 °F and +185 °F (-40 °C and +85 °C)
Operating humidity	0 to 95% relative humidity, non-condensing
Environmental Approvals	IP66, NEMA 4

Functional

Available ranges	Note! The available limit switch range is 100 ft (30 M) max.
Limit switches ratings	11 amp - 125, 250, 277 VAC 4 amp - 125 VAC Tungsten filament Lamp Load 1/3 HP - 125 VAC, 250 VDC 1/2 amp - 125 VDC, 1/4 amp - 250 VDC

Physical

Weight	Net 13 lbs (5.9 kg). Shipping 18 lbs (8.2 kg)
Gearing system	Stainless Steel, Direct Drive
Enclosure	Explosion proof die-cast aluminum Rated IP66 (NEMA 4)
Conduit entries	2910 FTT Enclosure: 2 x 3/4" NPT (standard configuration uses one entry) Terminal junction box: 2 x 3/4" NPT

Notes:

- ¹ Not available with Communication option NA.
- ² Limit switch only version.
- ³ Applies only to Limit Switch option N. Otherwise select an option from 1 to 6.
Ensure a Limit Switch Range option from 1 to 6 has been selected.
- ⁵ Only available with Communication option NA.
- ⁶ The number of junction boxes supplied from the factory depends on the Communication, Digital Input/Output and Analog Input/Output options selected. Communication option NA (Limit Switch Only) is supplied with no (0) junction boxes. All other options are supplied with 1-3 junction boxes dependent on the terminal and wiring requirements.
- ⁷ Only available with Communication option BP

Order Codes

Approvals	
EA	Electronic Assembly (No housing) ¹
FM	cFMus (USA & Canada) - Explosion proof Class I Division 1 (Ta> -25°C)/Zone 1 (Ta>=20°C) Groups C&D T5 (Ta<=+85°C) - Flameproof, Class I, Zone 1, AEx/Ex d IIB T5 -20 °C ≤ Ta ≤ +85 °C
AT	ATEX/IECEx (International) - Flameproof, Class I, Zone 1, Ex II 2G, Ex d IIB T5 Gb -20 °C ≤ Ta ≤ +85 °C
Power Input	
0	NA (Limit Switches Only) ²
1	DC
2	AC
Communication	
NA	NA (Limit Switches Only) ²
MS	Mark/Space
MB	EIA-485 MODBUS/GSI Type MODBUS
LJ	Tankway (L&J)
Limit Switch Range	
0	N/A (Select this option if no limit switches are supplied) ³
1	0-25 ft
2	0-50 ft
3	0-100 ft
4	0-7.5 m
5	0-15 m
6	0-30 m
Limit Switches	
N	No additional limit switches
A	Two (2) SPDT Limit Switches (180° adjustable dwell, positive activation)
B	Four (4) SPDT Limit Switches (180° adjustable dwell, positive activation)
C	Six (6) SPDT Limit Switches (18° adjustable dwell, positive activation) ^{4,5}
Additional Junction Box	
0	No additional Junction Box ⁶
1	Additional Junction Box ⁵
Digital Inputs/Digital Outputs	
A	2 Digital Inputs
B	4 Digital Inputs + 4 Dry Contact Outputs
Analog Inputs/Outputs	
0	None
1	Analog Input (4-20 mA)
2	Analog Outputs (4-20 mA)
3	Analog Input and Outputs (4-20 mA)
Digital Inputs/Outputs	
A	None
B	HART Master I/O ⁷
N2910-	Complete designation

