

840E Solid-State Level Switch

Rugged stainless steel construction performs reliably in the harshest conditions

The Allen-Bradley Condition Sensing family from Rockwell Automation introduces the new 840E solid-state level switch to its already successful product line. Our applications knowledge together with our technical expertise in the level switch condition sensing business enables us to help you find the ideal solution for all your application needs.

The compact 840E level switch is based on piezoelectric vibrating fork technology. The level switch monitors resonance frequency and indicates whether the tuning fork is freely vibrating or covered by liquid. With its IP66/67 rating, the 840E performs reliably in the harshest of environments, including turbulence, vibration, content build-up, changing media, and bubbles and foam.

Applications and Industries

Housed in rugged, corrosion-resistant 316L stainless steel enclosure, this cost-effective compact level switch is suitable for most fluid applications including:

- Liquid level monitoring
- Tanks, containers and pipelines
- Filtering systems
- Coolant and lubricant tanks
- Pump protector program support

Utilized primarily for liquid level detection in industries such as factory automation, oil and gas, chemical, food and beverage and automotive this level switch is easy to install and has no moving parts, so it is virtually maintenance-free. Plus, the 840E can be mounted in any orientation – top, bottom, sideways, or even in pipe work.

The 840E is available in a DC PNP version with a M12 connector or an AC version with a DIN valve connector.



Features

- Liquid level switch used in tanks, containers and pipelines
- On-site control using external LED display
- Easy-to-install
- Microprocessor based with no moving parts for longer life and reduced downtime
- Rugged, corrosion-resistant 316L stainless steel housing features IP66/67 rating for DC type and IP65 for AC type enclosure for various industrial conditions
- DC PNP version with M12 connector
- AC version with DIN valve connector
- 316L stainless steel sensing element

Benefits

- Compact design (38 mm/1.5 inch fork) allows for installation in tight applications
- LED display provides optimum recognition of mode in every position for fast verification
- Integrated load check offers safe commissioning
- Overspill protection and leakage monitoring for instrument and plant safety

LISTEN.
THINK.
SOLVE.™

General Ordering Information



	Catalog Number
Process Connection	DC-PNP
1/2 inch NPT (male)	840E-TB1B1A1D4
3/4 inch NPT (male)	840E-TB1B2A1D4
G 1/2 inch (male)	840E-TB1B3A1D4



	Catalog Number
Process Connection	AC
1/2 inch NPT (male)	840E-TB2B1A1E4
3/4 inch NPT (male)	840E-TB2B2A1E4
G 1/2 inch (male)	840E-TB2B3A1E4

Recommended Cordsets for 840E



	Catalog Number
Recommended Cordset:	DC-PNP
2 m (6.5 ft) 4-pin DC micro (straight)*	889D-F4AC-2



	Catalog Number
Recommended Cordset:	DC-PNP
2 m (6.5 ft) 4-pin DC micro (right angle)*	889D-R4AC-2



	Catalog Number
Optional Cordset:	AC
2 m (6.5 ft) DIN valve*	889V-RZ3ABE-2

*Additional cable lengths are available. Shielded cables may be used to protect analog signal quality in an electrically noisy environment – Refer to the On-Machine Connectivity catalog for options.

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