

Емкостные переключатели уровня и датчики ULS-200, CAP-300

Технические характеристики

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ULS-200

Solid-State Point-Level Sensor

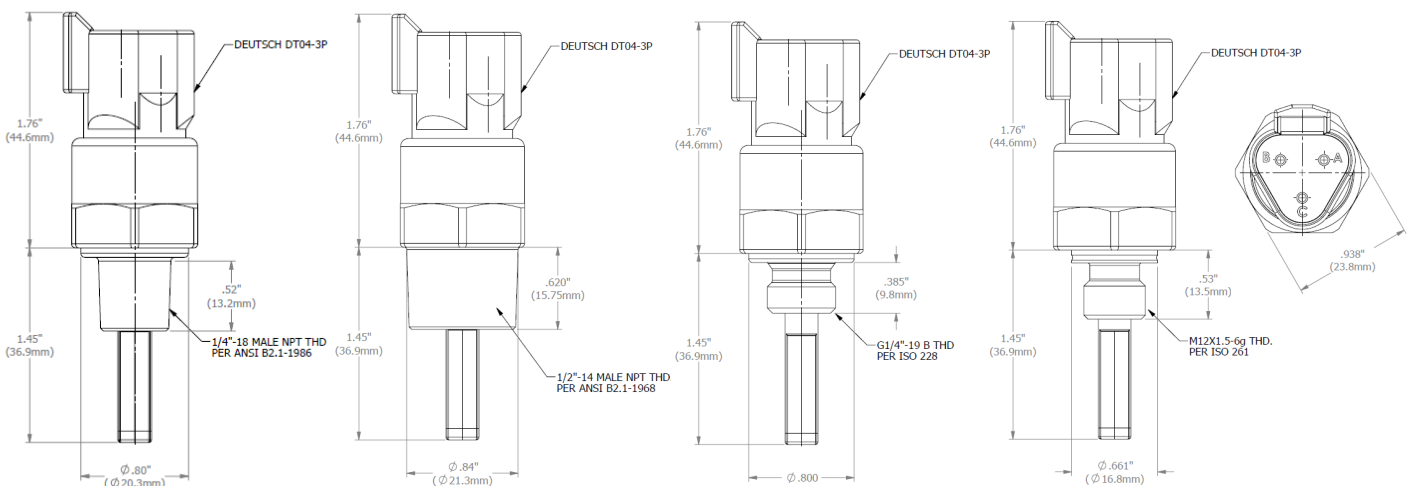
- Developed for aqueous, oil and hydrocarbon applications
- Tolerates coating and build-up
- Wide temperature and pressure range
- Durable sealed design - IPX7 and IP6K9K
- Longer life expectancy from solid-state technology
- Standard configurations include no delay, 3, 5 or 10 second time delays*



SPECIFICATIONS

MEDIA		Aqueous, Oil & Hydrocarbon-Based Liquids
MOUNTINGS		1/4"-18 NPT, 1/2"-14 NPT, G1/4"-19 B, M12x1.5-6g
WETTED MATERIALS	HOUSING	Brass, 316L Stainless Steel
	O-RING	Buna
	PROBE TIP	PVDF (Aqueous) or PBT (Hydrocarbon)
OPERATING PRESSURE		Up to 300 PSIG
OPERATING TEMPERATURE		-40° F to +257° F (-40° C to +125° C)
SUPPLY VOLTAGE		9-32 VDC
CURRENT CONSUMPTION		6mA Max. (No Load)
OUTPUT		Solid-State, Sinking or Sourcing Output, 9-32 VDC, 300mA Max.
ELECTRICAL TERMINATION		3-Pin Deutsch, M12**
TIME DELAY		No Delay, 3 Sec, 5 Sec, 10 Sec
INGRESS PROTECTION		IPX7 & IP6K9K
APPROVALS		CE, RoHS

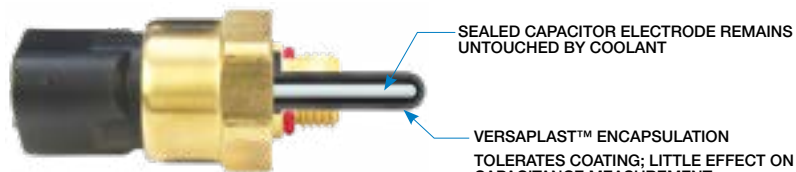
*Time delays are from the sensor switching states to the output signal **M12 electrical connector available later in 2024, contact Gems for more information



CAP-300 Series – Capacitive Level Sensor

- ▶ Durable sealed design – IP67
- ▶ Developed for the most rugged aqueous applications
- ▶ Tolerates coolant coating
- ▶ Small size – 2" (51 mm) long
- ▶ Available in Stainless Steel for Food & Beverage Applications

The CAP-300 capacitive level sensor is one of our most durable and reliable point level sensors. The versatile CAP-300 is the ideal OEM solution for power generation equipment, off-highway vehicles, generators, Food & Beverage, Medical, Rail and HVAC applications, and excels in coolant monitoring. With nearly zero maintenance, the sensor mounts in any position, is compact, tolerates coating, remains reliable even in standby mode, and is compatible with temperatures up to 257°F (125°C). For use where sloshing occurs, or the reservoir's attitude changes frequently, Gems offers a variety of actuation delays.



Specifications

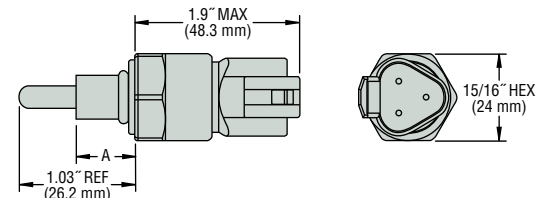
Mountings	1/4" NPT, 1/2"-20 per SAE J1926-3, M12x1.0-8g, M12x1.5 ISO 6149-3, 1/2" NPT
Materials	
Housing	Brass or 316L Stainless Steel
O-Ring	EPDM
Probe Tip	Versaplast™
Operating Pressure	Up to 100 PSIG
Operating Temperature	
Common	-40°F to +257°F (-40°C to +125°C)
Cable Versions	-4°F to +158°F (-20°C to +70°C)
Supply Voltage	9 to 32 VDC
Current Consumption	15mA max. (no load)
Output	Open collector, sinking or sourcing output, 9-32 VDC, 30mA max.
Electrical Termination	3-pin Deutsch, 18 AWG Type SXL flying leads or 18 AWG PVC Cable
Sensing Element Length	1.03" (26.2mm) Max. (including thread length)
Approvals	CE, IP67, RoHS

For NSF certified product options, contact Gems.

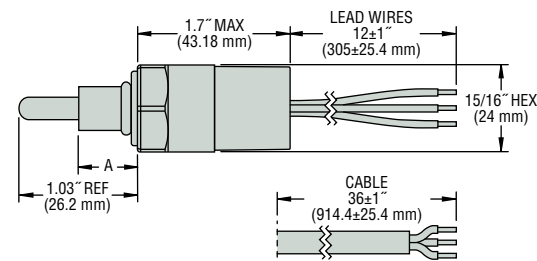


Dimensions

Deutsch® Connector



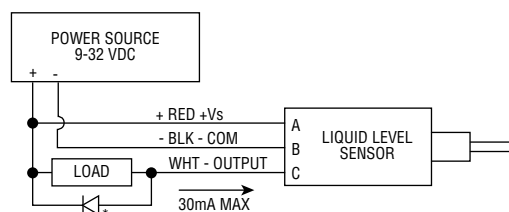
Lead Wires or Cable



Thread Sizes		A DIM. REF.	EPDM O-Ring
	1/2"-20	0.43" (10.9 mm)	3-905
	M12x1-8g	0.54" (13.5 mm)	2-110
	M12x1.5	0.53" (15.2 mm)	9.3 x 2.2 mm
	1/4"-18NPT	0.62" (15.7 mm)	None
	1/2"-14NPT	0.62" (15.7 mm)	None

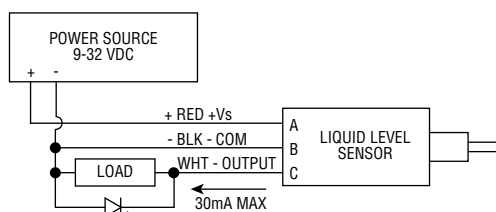
Wiring Diagram

Sinking



* For inductive loads, use diode suppression.

Sourcing



How To Order

Select a Part Number based on mounting type, connection and actuation condition.

Actuation Condition	Electrical Connection	Thread Sizes						
		Brass					316L Stainless Steel	
		1/4"-18 NPT (male)	1/2"-20 per SAE J1926-3	M12x1.5 Stud End Per ISO6149-3	M12x1.0-8g	1/2"-14 NPT (male)	1/4"-18 NPT (male)	1/2"-14 NPT (male)
Wet Sink	Integral 3-pin Deutsch® DT04-3P Connector	240640	240700	240800	240900	242970	244510	244540
	12" 18 AWG SXL Flying Leads	240660	240720	240820	240920	242975	244515	244545
	36" PVC Cable	240680	240740	240840	240940	242980	244520	244550
Dry Sink	Integral 3-pin Deutsch® DT04-3P Connector	240650	240710	240810	240910	242985	244525	244555
	12" 18 AWG SXL Flying Leads	240670	240730	240830	240930	242990	244530	244560
	36" PVC Cable	240690	240750	240850	240950	242995	244535	244565
Wet Source	Integral 3-pin Deutsch® DT04-3P Connector	240645	240705	240805	240905	242971	244511	244541
	12" 18 AWG SXL Flying Leads	240665	240725	240825	240925	242976	244516	244546
	36" PVC Cable	240685	240745	240845	240945	242981	244521	244551
Dry Source	Integral 3-pin Deutsch® DT04-3P Connector	240655	240715	240815	240915	242986	244526	244556
	12" 18 AWG SXL Flying Leads	240675	240735	240835	240935	242991	244531	244561
	36" PVC Cable	240695	240755	240855	240955	242996	244536	244566

Optional Delay

Delays are useful when the liquid being sensed is subject to frequent sloshing or the reservoir's attitude changes significantly. For low quantities, Gems offers a 5- and 10-second delay ($\pm 1/2$ second). Gems will customize the delay up to 99 seconds for large volume OEM applications. Please call Gems for more information.

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