

## Application

The COLM (COntec Level Measurement) S286 is an active device designed to give an alarm signal if liquid falls below, or rises above, a preset level. It can be specified with a delay to eliminate false alarms due to turbulence. Containing a factory programmable microprocessor, the switch offers sink to ground or source voltage output. Its small footprint with limited intrusion into the tank means a reduced risk of damage and a wide range of customer specifiable options make it suitable for most applications. For high accuracy the S286 is ideally mounted horizontally at the point where an alarm or control signal is required. However, the switch can be mounted vertically.



#### **Specifications**

Liquid types:	Mineral oils, typically used in engines		
	or hydraulic actuators, compatible with		
	brass, PTFE and FVMQ.		
Features:	Customized switches on demand		

# **Electrical rating**

Supply voltage:	9–36 Vdc		
Supply current:	7 mA + source output		
Max. load current:	1.0 A (sink) or 20 mA (source)		
Alarm delay time:	0 to 25 s rising or falling (factory set)		
Connection:	4 way Delphi Packard Metri-Pack 150		
	series connector		
Power up delay:	0 to 10 s (factory set)		
Power up state:	'In Liquid' or 'Out of Liquid' (factory set)		
Output type:	Sink (open collector) and/or Source		
	(supply voltage)		
Output pin:	Pin D (sink) or Pin A (source)		
Output state:	Sink Open / Closed in liquid (factory set)		
	Source On / Off in liquid (factory set)		

### **Environmental Ratings**

Ingress:	IP 67 (with mating connector fitted)		
Max. pressure:	5.0 Bar (72 psi)		
Temp. range:	-40 °C to +125 °C		
Weight:	70g typical (dependent on thread size)		
EMC:	ISO 13766:2006		
Vibration	3 orthogonal planes for 3 hours per plane.		
(15.3 Grms):	Testing performed in acc. with BSEN		
	60068-2-64:1993		
Drop:	1 m to concrete surface		

### Construction

Body: Probe:	Brass PTFE
Terminals:	Brass, Tin Plated
Seals:	FVMQ
Connector:	PA66 30% Glass Filled Nylon

# **Recommended Installation**

Tightening Torques					
1/4" NPTF	9 Nm	M14x1.5	10 Nm		
3/8″ NPTF	11 Nm	M18x1.5	15 Nm		
1/2" NPTF	20 Nm				
1/2" BSPP	15 Nm				
1/2″ BSPT	20 Nm				

#### **Options**

C/K1: Packard Metri-Pack 150 series mating connector kit to suit harness wire cross sectional area of 0.8 to 1.0 mm<sup>2</sup> and sleeve Ø 1.60 to 2.15 mm.



