

# CMS

## CROWNED METAL RUPTURE DISC SENSOR

***The Crowned Metal Sensor is designed for use with larger rupture disks, where the disk crown may extend beyond the holder outlet***



Our CMS (Crowned Metal Sensor) is used with larger rupture disks, where the disk crown may extend beyond its holder and interfere with standard flat sensors.

The CMS is corrosion-resistant and suitable for temperatures up to 400°F / 204°C. This is achieved by using high-alloy, corrosion-resistant membranes, 316 Stainless Steel and strong cable connections with a shielded, insulated cable.

The CMS is installed on the vent side of a rupture disk assembly. It may be connected to an alarm or other computer-controlled system for fast failure recognition. As the sensor may fragment after the disc bursts, it is essential to ensure it discharges to a safe area. The sensor should not be installed upstream of a relief valve. It is designed to be compatible with our (F)RDI holder.

**Supplied ready for installation**

**Superior chemical resistance**

**High temperature capability up to 400°F**

**Can be connected to computer-controlled systems**

**Immediate burst indication minimizes downtime**

**Let us help you with all  
your pressure relief questions.**

**UK office | North Shields**  
+44 (0)191 293 1234 | [uksales@osecoelfab.com](mailto:uksales@osecoelfab.com)

**US office | Broken Arrow**  
+1 (918) 258 5626 | [info@osecoelfab.com](mailto:info@osecoelfab.com)

[osecoelfab.com](http://osecoelfab.com)

**REQUEST A QUOTE FOR  
THE CMS SENSOR** →



# TECHNICAL SPECIFICATIONS



Size range	12"-24" / 300 - 600mm
Standard Materials	Gasket: Asbestos-free, synthetic Membrane & Circuit: 316 Stainless Steel, unless otherwise marked (other materials are available on request)
Temperature Range	-50°F to 400°F / -45°C to 204°C
Cable	24 AWG, 2 Conductor, Teflon insulation, Shielded
Cable length	Min/max lengths: 3ft - 32ft / 1m - 10m Standard length: 6ft supplied as standard
Maximum voltage	25.5V
Maximum current	150 mA
Max. pre-burst resistance	20 Ohms
Ci	0.0036µF
Li	12 µH

REQUIRED BURST PRESSURES		
SIZE	MINIMUM BURST PRESSURE	
DN (mm)	inches	psig / barg
300	12	4.0 / 0.3
350	14	9.0 / 0.7
400	16	8.0 / 0.6
450	18	7.0 / 0.5
500	20	6.0 / 0.5
600	24	5.0 / 0.4

## Certifications

ETL

## Related Products

**Holders**  
(F)RDI Insert holder

**Rupture Discs**  
(F)CO  
(F)STD