CHARACTERISTICS

- ULTRA SMALL;
 SMALLEST SENSOR ON THE
 MARKET TODAY.
 SMALL SIZE MEANS EASIER
 INSTALLATION ON TRICKY
 MACHINERY.
- ULTRA FAST: NO MECHANICAL MOVING PARTS MEANS THE SENSOR CAN READ ANY PRACTICAL CYCLE SPEED.
- ULTRA RELIABLE:
 COMPLETELY SOLID STATE
 OPERATION FOR HIGH
 RELIABILITY AND DURABILITY.
- IP 67 PROTECTION.
- FULLY POTTED SOLID STATE DEVICE:
 MEANS CIRCUIT IS ISOLATED FROM THE ENVIRONMENT.
- 360° LED MONITORING:
 ALLOWS YOU TO SEE SIGNAL
 STATUS FROM ANY ANGLE.
- NPN AND PNP: BOTH INCLUDED AS STANDARD.
- M12 CONNECTOR: AUTOMOTIVE SPECIFICATIONS PROVIDES ROBUST WIRING SOLUTIONS.

APPLICATIONS

ONY SMX, SMP E SMO SYSTEM.

Patented: UltraSensor technology is protected by international patents.

Patented: US 20080284415 A1

ULTRASENSOR:

ULTRA SMALL, ULTRA FAST, ULTRA RELIABLE

The *UltraSensor* has been designed as a next generation replacement of Proximity and Micro switch systems for monitoring spool movement in progressive divider elements.

A single model will work with all standard SMX and SMP divider blocks as a screw-on accessory without requiring special arrangement or modification to the spool.

The patented concept works by monitoring magnetic flux variations through a hall-effect sensor as the spool enters the sensing range. There are no moving parts which means the solid state device is completely wear free.

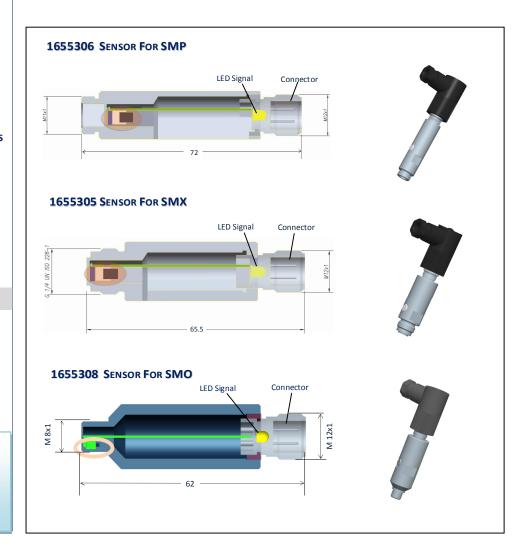
Stainless steel AISI 316





Nickel-plated brass

NPN and PNP connection options are standard within the same sensor.



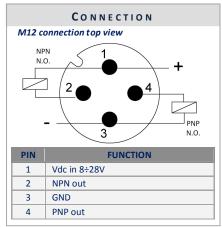
TECHNICAL INFORMATION

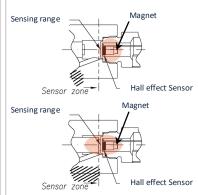
TECHNICAL CHARACTERISTICS			
Material	Stainless steel AISI 316 - Nickel-plated brass		
Max. cycle per minute	1000		
Voltage	8 ÷ 28 V DC		
Short circuit protection	Si		
Protection degree	IP 67		
Operating temperature	-10 °C ÷ +60 °C (-4 °F ÷ +158 °F)		
Connector	M12x1		
Output signals	NPN 2A N.O - PNP 0,7A N.O.		
Max allowable pressure on the front sensor surface	400 bar		

MOUNTING INFORMATION

CLAMPING TORQUE		
SMX	14 Nm +-5%	
SMO	10 Nm	

OPERATING PRINCIPLE





Normally, the magnetic field is balanced around the hall sensor.

With the spool in the sensing range, the flux density is modified allowing the hall effect sensor to detect the presence of the spool.

The use of a Magnetic Flex variation allows an extended sensing zone which avoids problems on systems with low flow rates and backpressure where the spool can often stop or bounce on the sensing surface.

ORDERING INFORMATION

	Material	Part. No.		Q.t
Canada fan CNAD	Nickel-plated brass	1655306	0	
Sensor for SMP	Stainless steel AISI 316	1655348	0	
Sensor for SMX	Nickel-plated brass	1655305	_ 0	
Sensor for Sivix	Stainless steel AISI 316	1655340	0	
Sensor for SMO	Nickel-plated brass	1655308		
	Stainless steel AISI 316	1655342	0	

ACCESSORIES	M12 female connector	039999	0
	M12 female connector +CABLE L 5 mt	0039815	0

Note/contact:

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C2118PE WK 13/13

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