

## 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

■ 02 SYSTEM

Patented: UltraSensor technology is protected by international patents. Patented:

US 20080284415 A1

# **ULTRASENSOR DMG:**

ULTRA 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.

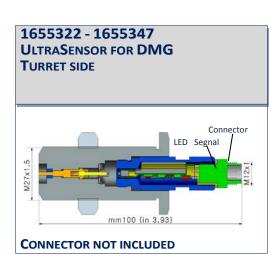
ULTRASENSOR DM will work with standard DMG divider blocks as a screw-on accessory without requiring special arrangement or modification to the spool.

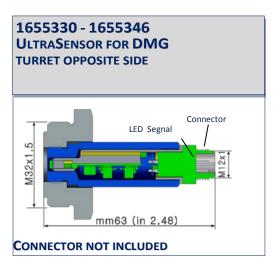
The patented concept works by monitoring magnetic flux variations through a hall-effect sensor as the spool enters the sensing range









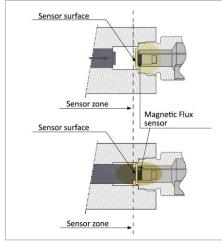




#### **TECHNICAL INFORMATION**

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

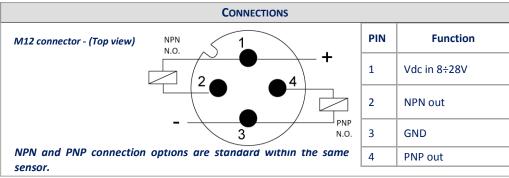
#### **OPERATING PRINCIPLE**



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**

	Description	Part. No.	
Ultras	sensor for DMG – TURRET SIDE - Nickel-plated brass	1655322	0
	Ultrasensor for DMG Nickel-plated brass - SS 316	1655347	O
Ultrasensor for I	DMG – TURRET OPPOSITE SIDE - Nickel-plated brass	1655330	O
l	Jitrasensor for DM TURRET OPPOSITE SIDE - SS 316	1655346	O
ACCESSORIES	M12 female connector	0039999	0
ACCESSORIES	M12 female connector M12 female connector	0039999 0039815	0
ACCESSORIES			0 0 0
ACCESSORIES	M12 female connector +CABLE L 5 mt	0039815	00

Info distributor:

C2187PE WK 39/16

Dropsa products can be purchased from Dropsa subsidiary and Dropsa sales representatives, visit <a href="www.dropsa.com/contact">www.dropsa.com/contact</a> or contact us <a href="mailto:sales@dropsa.com/contact">sales@dropsa.com/contact</a> or contact us <a href="mailto:sales@dropsa.com/contact/">sales@dropsa.com/contact/</a> or contact us <a href="mailto:sales@dropsa.com/contact/">sales@dropsa.com/contact/</a> or contact us <a href="mailto:sales@dropsa.com/contact/">sales@dropsa.com/contact/</a> or contact/<a href="mailto:sales@dropsa.com/contact/">sales@dropsa.com/contact/<a href="mailto:sales@dropsa.com/contact/">sales@dropsa.com/contact/<a href="mailto:sales@dropsa.com/contact/">sales@dropsa.com/contact/<a href="mailto:sales@dropsa.com/contact/">sales@dropsa.com/contact/<a href="mailto:sales@dropsa.com/contact/">sales@dropsa.com/contact/<a