CHARATTERISTICS

- 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: 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





1655330

FOR DMG TURRET **OPPOSITE SIDE**

ULTRASENSOR



1655330 - 1655346

UltraSensor technology is protected by international

CONTACTS

www.dropsa.com

sales@dropsa.com

ITALY

Dropsa SpA t. +39 02-250791 f.+39 02-25079767

U.K.

Dropsa (UK) Ltd t. +44 (0)1784-431177 f. +44 (0)1784-438598

GERMANY

Dropsa GmbH t. +49 (0)211-394-011 f. +49 (0)211-394-013

FRANCE

Dropsa Ame t. +33 (0)1-3993-0033 f. +33 (0)1-3986-2636

U.S.A.

Dropsa Corporation t. +1 586-566-1540 f. +1 586-566-1541

AUSTRALIA

Dropsa Australia Ltd. t. +61 (02)-9938-6644 f. +61 (0)2-9938-6611

BRAZIL

Com.Ltda t. +55 (0)11-563-10007 f. +55 (0)11-563-19408

Dropsa Brasil Ind.e

CHINA

Dropsa Lubrication Systems (Shanghai) Co., Ltd

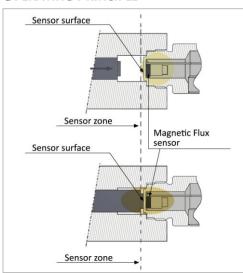
t. +86 (021) 67740275

f. +86 (021) 67740205

TECHNICAL INFORMATION

TECHNICAL CARATTERISTICS		
Material	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 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.

CONNECTIONS M12 connector - (Top view) PIN **Function** NPN N.O. Vdc in 8÷28V 1 NPN out 2 PNP 3 **GND** N.O. **PNP** out NPN and PNP connection options are standard within the same sensor.

ORDERING INFORMATION

Part. No.	Description
1655322	Ultrasensor for DMG – TURRET SIDE - Nickel-plated brass
1655347	Ultrasensor for DMG Nickel-plated brass - SS 316
1655330	Ultrasensor for DMG – TURRET OPPOSITE SIDE - Nickel-plated brass
1655346	Ultrasensor for DM TURRET OPPOSITE SIDE - SS 316
0039999	Connector

Part. No.	ACCESSORIES
0039815	M12 female connector +CABLE L 5 mt