

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 DM:

ULTRA ULTRA SMALL, ULTRA FAST, ULTRA RELIABLE

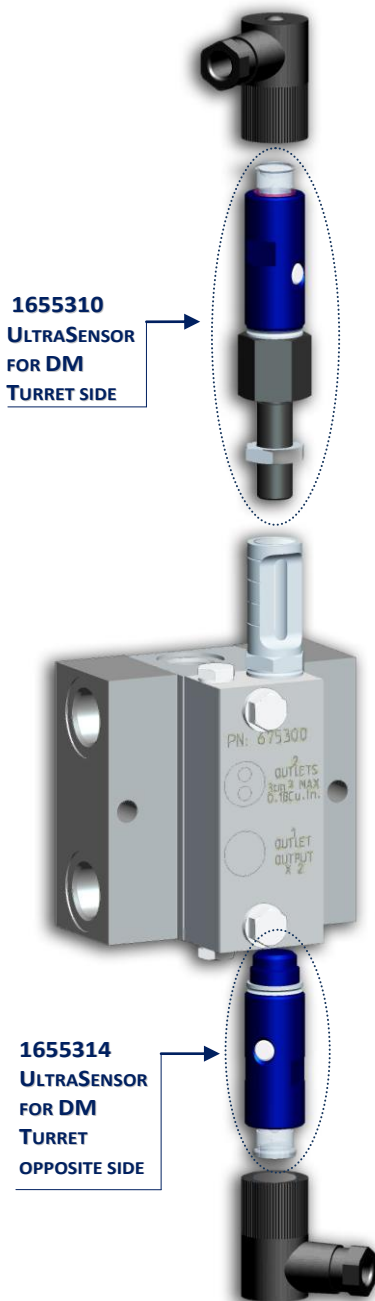
The UltraSensor has been designed as a next generation replacement of Proximity and Micro switch systems for monitoring spool movement in progressive divider elements.

UltraSensor DM will work with standard **DM** 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.



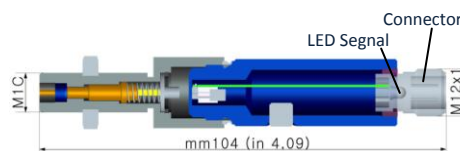
CONNECTOR



1655310
ULTRASENSOR
FOR DM
TURRET SIDE

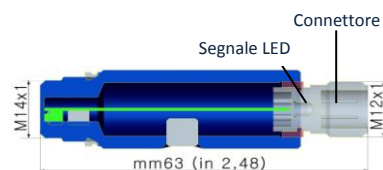
1655314
ULTRASENSOR
FOR DM
TURRET
OPPOSITE SIDE

1655310 ULTRASENSOR FOR DM TURRET SIDE



CONNECTOR NOT INCLUDED

1655314 -1655344 ULTRASENSOR FOR DM TURRET OPPOSITE SIDE



CONNECTOR NOT INCLUDED

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

Dropsa Brasil Ind.e
Com.Ltda
t. +55 (0)11-563-10007
f. +55 (0)11-563-19408

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	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 Flux 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		
<p>M12 connector - (Top view)</p>	PIN	FUNCTION
	1	Vdc in 8÷28V
	2	NPN out
	3	GND
	4	PNP out
<p><i>NPN and PNP connection options are standard within the same sensor.</i></p>		

ORDERING INFORMATION

Part. No.	Description
1655310	Ultraseensor for DM - TURRET SIDE Nickel-plated brass
1655350	Ultraseensor for DM - TURRET SIDE AISI 316
1655314	Ultraseensor for DM TURRET OPPOSITE SIDE Nickel-plated brass
1655344	Ultraseensor for DM TURRET OPPOSITE SIDE AISI 316
0039999	Connector

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