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/DMM: 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/DMM will work with standard **DM/DMM** 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.



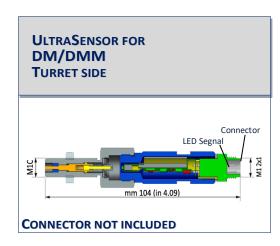


ULTRASENSOR

SIDE

FOR DM /DMM
TURRET OPPOSITE





1655314 -1655344
ULTRASENSOR FOR DM
TURRET OPPOSITE SIDE

Connettore
Segnale LED

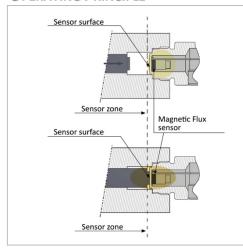
mm 63 (in 2.48)

CONNECTOR NOT INCLUDED

TECHNICAL INFORMATION

TECHNICAL CHARACTERISTICS			
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.

Connections				
M12 connector - (Top view)	PIN	FUNCTION		
NPN N.O. +	1	Vdc in 8÷28V		
	2	NPN out		
	3	GND		
PNP N.O.	4	PNP out		
NPN and PNP connection options are standard within the same sensor.				

ORDERING INFORMATION

Ultrasensor for DM/	Description asensor for DM - TURRET SIDE Nickel-plated brass Ultrasensor for DM/DMM - TURRET SIDE AISI 316 DMM TURRET OPPOSITE SIDE Nickel-plated brass or for DM/DMM TURRET OPPOSITE SIDE AISI 316	Part. No. 1655310 1655350 1655314 1655344	0	
ACCESSORIES	M12 female connector M12 female connector +CABLE L 5 mt 2 m cable, M12 female connector 2 m cable, 90°- M12 female connector 5 m cable, 90°- M12 female connector	0039999 0039815 0039168 0039830 0039815	00000	

Info distributor: