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.

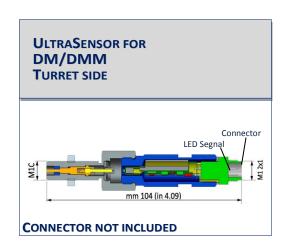
Ultrasensor DM/DMM will work with standard DM/DMM divider blocks as a screw-on accessory without requiring special arrangement or modification to the spool.

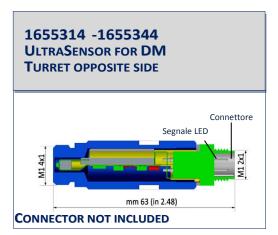
The patented concept works by monitoring magnetic flux variations through a hall-effect sensor as the spool enters the sensing range.







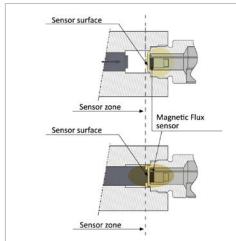




TECHNICAL INFORMATION

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

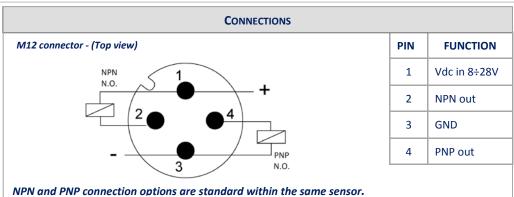
OPERATING PRINCIPLE



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.



ORDERING INFORMATION

Description	Part. No.		
nsor for DM - TURRET SIDE Nickel-plated brass	1655310		
•		\sim —	
•		\simeq —	
•		\simeq —	
or DIM/DIMIM TURKET OPPOSITE SIDE AISI 316	1055344	0	
M12 female connector M12 female connector +CABLE L 5 mt	0039999 0039815	0	
WITE ICHIGIC COMMCCION (CADEL E 3 IIII			
	0039168	ŏ —	
2 m cable, M12 female connector 2 m cable, 90°- M12 female connector		00 ===	
		M TURRET OPPOSITE SIDE Nickel-plated brass 1655314 or DM/DMM TURRET OPPOSITE SIDE AISI 316 1655344 M12 female connector 0039999	M TURRET OPPOSITE SIDE Nickel-plated brass 1655314 Or DM/DMM TURRET OPPOSITE SIDE AISI 316 1655344 O

Info distributor: