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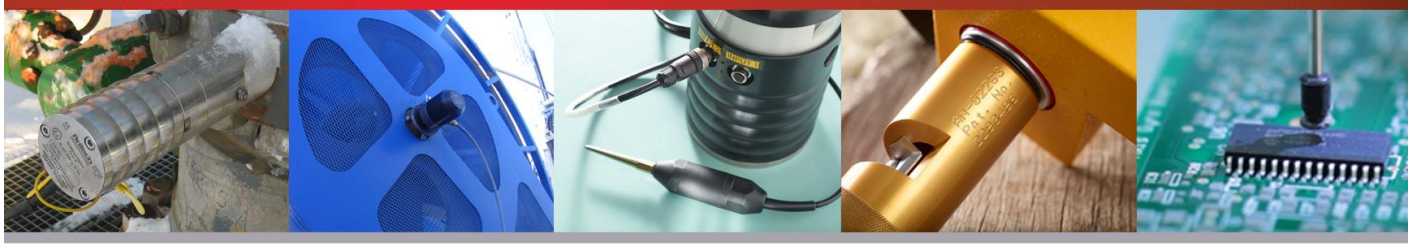

Thru-Riser (Magnetic) Detector

The Thru-Riser or Magnetic Detector (MDET) is used to assist oil service providers involved in running slim-hole tools, and to improve safety in the wellhead operating area.

A sensor is strapped around the riser from the wellhead where it detects the passing end of the coiled tubing, and relays this information to the Control Box giving a visual and audible warning to the operators.

The Sensor Assembly is intrinsically safe and certified for use in Zone 0 hazardous areas. The Control Panel and Battery Pack are certified for Zone 1.

Applications

The detector can be used for numerous applications, including:

- End of Coiled Tubing Detection
- Detection of broken tubing – prevents broken tubing from accidentally being pulled through the stripper
- Counting and detecting tool joints
- Detecting tools in the riser
- Tool deployment
- Cement plug launches
- Ball drop

Features & Benefits

- Safety – prevents tools or broken tubing being accidentally pulled out of the riser
- Non-invasive system
- Easy to set up
- Accurate feedback – independent of ambient magnetic fields
- Compensates for non-centralised tool string
- Certified for use in hazardous zones

Specifications

The following ratings and specifications do not apply to the Subsea MDET Universal Detector for which further information is available on request.

Specifications	
Input Voltage	110V or 230V
Operating Temp. Range	-4°F to 104°F (-20°C to 40°C)
Sealing Classification	IP54
Certification	EC Directive 94/4/EC (ATEX)
International Standards	
All Items	EN50014:1997 (Amendments A1-A2)
Control Panel	EN50019:2000, EN50028:1987
Sensors	EN50020:1994
Sensor Clamping Mechanism	Straps
Riser Height for attachment of sensors	32" (800mm)
Max. Distance control panel to sensors	160ft (50m)
Riser Outside Diameter	4" to 8" (100mm to 150mm) typical
Wall Thickness	1" (25mm) max
Type	Any Steel

DC- 00328/0518

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