

Range Sensor Test Cable

Model Number: THRSLTCA1191

Overview

The Range Sensor Test Cable connects the MC interface to the Range Sensor, providing a simple three-wire link for power and signal transfer. Built with Pepperl+Fuchs industrial-grade connectors, it ensures reliable connectivity during subsystem testing and calibration.

Proven in the **UXOR project supplied to the Indian Air Force (IAF)**, this cable has demonstrated robustness in field trials.

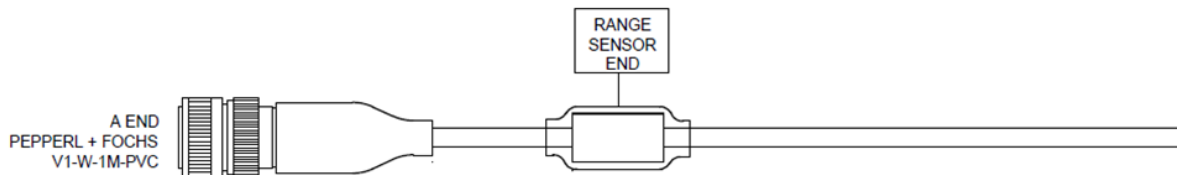
Technical Specifications

Parameter	Specification
Function	Power/signal link for Range Sensor
Connectors	A-End: Pepperl+Fuchs V1-W-1M-PVC B-End: Range Sensor Connector
Cable Length	1000 mm
Supported Signals	3-wire connection (supply, return, signal)
Cable Construction	PVC insulated, shielded wiring
Protection Standard	IP65
Operating Temperature	−20°C to +55°C

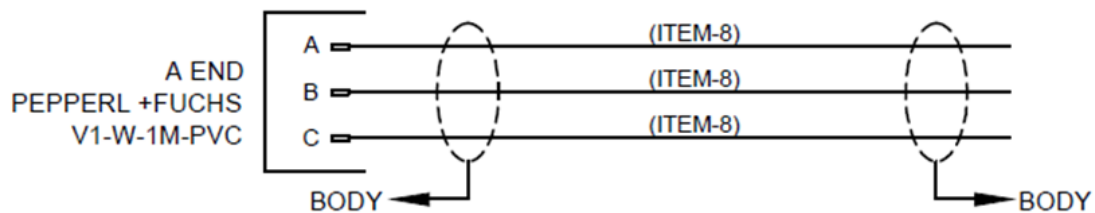
Pin Configuration (Start → End Mapping)

Range Sensor Interface

A-End (Pepperl+Fuchs)	Destination (Sensor End)
Pin A	Sensor Pin A
Pin B	Sensor Pin B
Pin C	Sensor Pin C
Body	Chassis/Shield continuity



WIRING DRAWING



Key Features

- **Straight-through 3-wire harness** for Range Sensor testing.
- Rugged Pepperl+Fuchs connector at MC interface.
- Shield and body continuity maintained end-to-end.
- Industrial-grade PVC insulation for reliability.
- Proven performance in UXOR robotic field deployments.

Applications

- Range sensor power and signal testing.
- Subsystem calibration during integration.
- Field diagnostics for UXOR robotic platforms.

Note

This Range Sensor Test Cable is part of THRSL's test cable suite, designed for fast sensor hookup during trials. Custom variants can be developed with alternate connector systems or shielded PTFE wiring for harsher environments.