THIS IS AN UNCONTROLLED PRINT AND WILL NOT BE UPDATED.

**PDM5-CORE OPTION ADDED ~ RAN1102**

**PDMFIRST ISSUE.A**

**M114 INTRINSICALLY SAFE**

**SUBMERSIBLE STAND-ALONE LINEAR POSITION SENSOR**

**Ex ia IIC T4 Ga (Ta= -40° to +80°C)**

**I/II M1/1GD**

**ATEX / IECEx APPROVED TO Ui 11.4V, Ii 0.2A, Pi 0.51W**

**Ex ia IIIC T135°C Da (Ta= -40° to +80°C)**

**Ex ia I Ma (Ta= -40° to +80°C)**

**RANGE WAS 50-600mm    RAN1056B**

**OPTION 'S' ADDED ~ RAN1108 C**

**RANGE NOTE AMENDED ~ RAN1200 PDME**

**THREAD FORM AMENDED ~ RAN1285 PDM**

**NOTES:**
- Read installation sheet M114-19 for full instructions for use.
- ATEX/IECEx APPROVED TO
  - LIII M1/1GD
  - Ex ia IIC T4 Ga (Ta= -40° to +80°C)
  - Ex ia IIC T135°C Da (Ta= -40° to +80°C)
  - Ex ia I Ma (Ta= -40° to +80°C)
  - Ui: 11.4V, Ii: 0.2A, Pi: 0.51W
- Approved for use in conjunction with a galvanically isolated barrier.
- Note: Approval only applies at normal atmospheric pressure.

**ELECTRICAL OPTIONS/ SPECIFICATIONS**

**OUTPUT**
- SUPPLY
  - 0.5 to 4.5V Ratiometric
  - 5V
- SUPPLY CURRENT 12mA Typ., 20mA Max.

**CABLE:**
- 0.2mm², O/A SCREEN, PUR JACKET — SUPPLIED WITH 50cm OR REQUIRED LENGTH IN cm (15000cm MAX).
- STANDARD 3-CORE JACKET #4 BLACK e.g. LS0H
- OPTIONAL 5-CORE JACKET #4.6mm BLUE e.g. LSOH

**CONNECTIONS:**
- 3 CORE 5 CORE
- RED RED +½
- ORG ORG 0V
- BLK BLK 0V
- GRY GRY — (5-WIRE ONLY)
- WHITE WHITE OUTPUT

**SCREEN**
- RANGE OF DISPLACEMENT FROM 0–5mm TO 0–800mm e.g. 76, IN INCREMENTS OF 1mm.

**BODY MATERIAL:**
- STAINLESS STEEL 316

**FURTHER OPTIONS:**
- SINGLE PAIR OF BODY CLAMPS "R"
- TWO PAIRS OF BODY CLAMPS "S"
- SPRING RETURN PUSH-ROD, TRAVEL ≤300mm
- RETURN TO EXTENDED POSITION (CODE "R")
- RETURN TO RETRACTED POSITION (CODE "S")

**PUSH-ROD FREE (CODE "V") — NOT AVAILABLE WITH SPRUNG OPTIONS.**

**MAXIMUM WORKING DEPTH: 100 METRES/328 FEET, WHERE THE FREE END OF THE CABLE IS TO BE TERMINATED IN A SUBMERGED POSITION, ADEQUATE SEALING MUST BE PROVIDED TO PROTECT CONNECTIONS. THE PUSH-ROD RETRACTS A FURTHER 4mm NOW, FROM START OF CALIBRATED TRAVEL. STANDARD VERSIONS THE PUSH-ROD EXTENDS A FURTHER 4mm NOW, FROM END OF CALIBRATED TRAVEL, FOR SPRUNG VERSIONS: "R": 1mm, "S": 2mm. "V" CODED PUSH-ROD WILL DETECT SENSOR BODY.**

**NOTICE:**
- NOT TO BE CHANGED WITHOUT REFERENCE TO THE CHANGE PROCEDURE.
- CHANGES TO PARTS USED IN INTRINSICALLY SAFE PRODUCT MUST BE APPROVED BY THE AUTHORIZED PERSON.
- THIS IS AN UNCONTROLLED PRINT AND WILL NOT BE UPDATED.