

**ELECTRICAL OPTIONS/ SPECIFICATIONS**

OUTPUT	SUPPLY
0.5 TO 4.5V RATIOMETRIC	5V
SUPPLY CURRENT	12mA TYP. 20mA MAX.

CABLE: 0.2mm<sup>2</sup>, 0/A SCREEN, PUR JACKET - SUPPLIED WITH 50cm OR REQUIRED LENGTH IN cm (15000cm MAX).  
 STANDARD 3-CORE: JACKET Ø4mm BLACK e.g. 'L50'  
 OPTIONAL 5-CORE: JACKET Ø4.6mm BLUE e.g. 'LQ50'

**CONNECTIONS:**

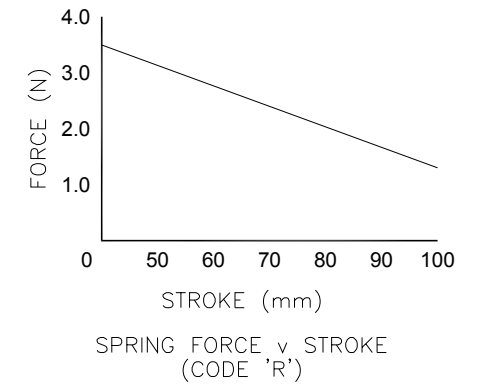
3 CORE	5 CORE	
RED	RED	+Ve
-	ORG	+SENSE (5-WIRE ONLY)
BLACK	BLACK	0V
-	GRY	-SENSE (5-WIRE ONLY)
WHITE	WHITE	OUTPUT
SCREEN	SCREEN	BODY

RANGE OF DISPLACEMENT FROM 0-51mm TO 0-100mm e.g.76., IN INCREMENTS OF 1mm.

BODY MATERIAL:- STAINLESS STEEL.  
 FLANGE BASE MATERIAL:- STAINLESS STEEL

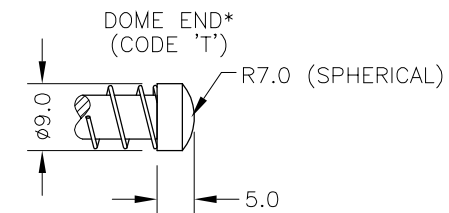
**FURTHER OPTIONS:**

- SINGLE PAIR OF BODY CLAMPS (CODE 'P')
- SPRUNG PLUNGER, TO EXTENDED POSITION (CODE 'R')
- DOME END (CODE 'T') IN CONJUNCTION WITH SPRUNG PLUNGER (CODE 'R')\*
- PLUNGER FREE (CODE 'V')
- N.b. NOT AVAILABLE WITH SPRUNG OPTIONS.



NOTE: SENSORS ARE MADE IN TWO STANDARD LENGTHS.

TRAVEL: (mm)	BODY LENGTH: (mm)
0-51 TO 0-70 70	138.0
0-71 TO 0-100 100	168.0



NOTE:- READ INSTALLATION SHEET M138-19 FOR FULL INSTRUCTIONS FOR USE.

**ATEX / IECEx APPROVED TO**  
  
**Ex ia IIC T4 Ga (Ta= -40° to +80°C)**  
**Ex ia IIIC 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.

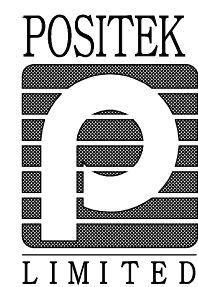
NOTE: APPROVAL ONLY APPLIES AT NORMAL ATMOSPHERIC PRESSURE!

<b>A</b>	<b>FIRST ISSUE - RAN1063/RAN1068.</b>	<b>PDM</b>
<b>B</b>	<b>5-CORE OPTION ADDED ~ RAN1102</b>	<b>PDM</b>
<b>C</b>	<b>RANGE NOTE AMENDED ~ RAN1200</b>	<b>PDM</b>



THE PLUNGER RETRACTS 8mm FROM START OF CALIBRATED TRAVEL (2mm FOR SPRUNG VERSIONS) AND EXTENDS 11mm\* BEYOND END OF MECHANICAL TRAVEL. \*DOES NOT INCLUDE DIFFERENCE BETWEEN CALIBRATED AND MECHANICAL TRAVEL, DIMENSIONS ARE NOMINAL. 'V' CODED PLUNGER WILL DEPART SENSOR BODY.

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



REV	DATE	DESCRIPTION	CHECKED BY	DIMS
A	25/11/15	M38 INTRINSICALLY SAFE MID STROKE SLIM-LINE LINEAR POSITION SENSOR	RDS	X ±0.4
B	26/04/17			X.X ±0.2
C	06/09/17			X.XX ±0.1
SCALE 10mm		DRAWING NUMBER	M138-11 REV C	
		SHEET 1 OF 1		