

NOTE: SENSORS ARE MADE IN FOUR STANDARD LENGTHS.

TRAVEL: (mm)	BODY LENGTH: (mm)		
CALIBRATED MECHANICAL	'X' STANDARD	'Y' FLANGE	
0-51 TO 0-70	70	132.5	138.0
0-71 TO 0-100	100	162.5	168.0

**ELECTRICAL OPTIONS/ SPECIFICATIONS**

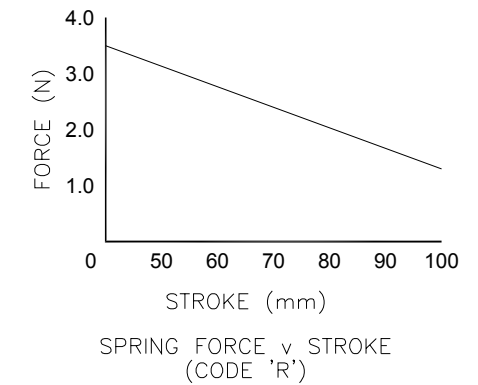
OUTPUT	SUPPLY	
0.5 TO 4.5V RATIOMETRIC	5V	
SUPPLY CURRENT 12mA TYP. 20mA MAX.		
CABLE: 0.2mm <sup>2</sup> , O/A SCREEN, PUR JACKET - SUPPLIED WITH 50cm OR REQUIRED LENGTH IN cm (15000cm MAX).		
STANDARD 3-CORE: JACKET Ø4mm BLACK e.g. 'L50'		
OPTIONAL 5-CORE: JACKET Ø4.6mm BLUE e.g. 'LQ50'		
CABLE/CONNECTOR* CONNECTIONS;		
3 CORE	5 CORE	CONNECTOR
RED	RED	:1 +Ve
-	ORG	:1 +SENSE (5-WIRE ONLY)
BLACK	BLACK	:3 0V
-	GRY	:3 -SENSE (5-WIRE ONLY)
WHITE	WHITE	:2 OUTPUT
SCREEN	SCREEN	:4 BODY

\*CONNECTORS; MAXIMUM CONDUCTOR CROSS SECTION 0.25mm<sup>2</sup>  
 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:- READ INSTALLATION SHEET X138-19 FOR FULL INSTRUCTIONS FOR USE.

**ATEX / IECEx APPROVED TO**  
 Ex II 1G  
 Ex ia IIC T4 Ga (Ta= -40° to +80°C)  
 Ui 11.4V, Ii 0.2A, Pi 0.51W

APPROVED FOR USE IN CONJUNCTION WITH A GALVANICALLY ISOLATED BARRIER.

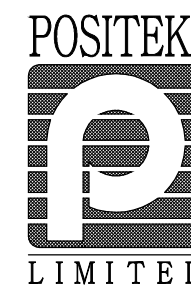
NOTE: APPROVAL ONLY APPLIES AT NORMAL ATMOSPHERIC PRESSURE!

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



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.



A	25/11/15		CHECKED BY	X ±0.4
B	26/04/17		RDS	X.X ±0.2
C	06/09/17			X.XX ±0.1
			DESCRIPTION	DIMS mm
X118 INTRINSICALLY SAFE SHORT STROKE SLIM-LINE LINEAR POSITION SENSOR				
SCALE	10mm	DRAWING NUMBER	X138-11	REV C
				SHEET 1 OF 1