



**ELECTRICAL OPTIONS/ SPECIFICATIONS**

**OUTPUT** 0.5 TO 4.5V RATIOMETRIC  
**SUPPLY** 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 0–15° TO 0–160° e.g. 76°, IN INCREMENTS OF 1°.

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

NOTE:- READ INSTALLATION SHEET G000-19 FOR FULL INSTRUCTIONS FOR USE.

CSA APPROVED TO  
 Class I Zone 0  
 Ex/AEx ia IIC T4 (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	PDM
B	RANGE WAS 20° TO 160° RAN 442	RDS
C	SHAFT LENGTH REDUCED 0.5 - RAN538.	PDM
D	OPTION 'J' ADDED - RAN1068.	PDM
E	5-CORE OPTION ADDED ~ RAN1102	PDM
F	RANGE NOTE AMENDED ~ RAN1200	PDM



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	19/03/13		CHECKED BY	X	±0.4
B	20/11/13		RDS	X.X	±0.2
C	21/01/15			X.XX	±0.1
					DIMS mm
D	02/12/15	DESCRIPTION			
E	27/04/17	G505 INTRINSICALLY SAFE			
F	12/09/17	SLIM-LINE ROTARY SENSOR			
SCALE					DRAWING NUMBER
5mm					G505-11
					REV F
					SHEET 1 OF 1