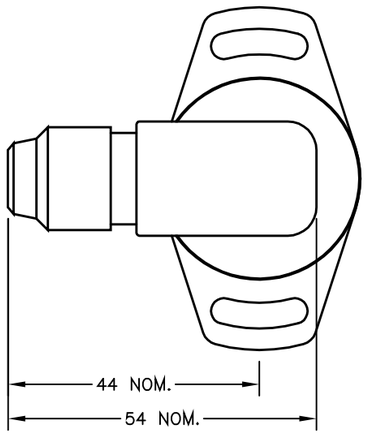
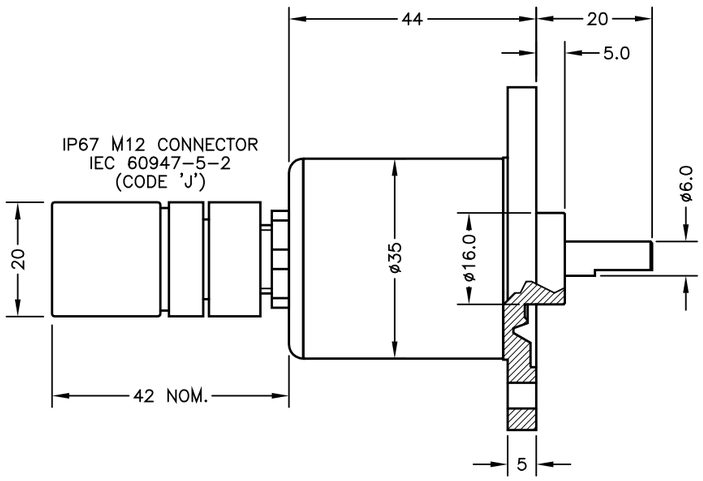
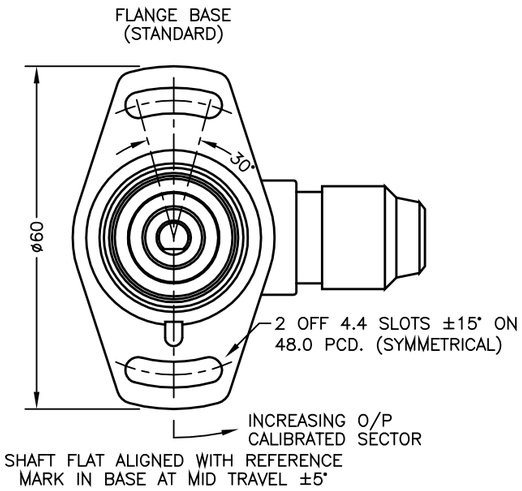






ELECTRICAL OPTIONS/ SPECIFICATIONS

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

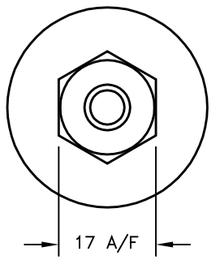
CABLE LENGTH, OPTION 'Lxx', ORDERED IN cm, 50cm STANDARD OR AS REQUIRED, 15000cm MAX.
3–CORE SCREENED: 0.2mm², ø4mm PUR JACKET
CABLE/CONNECTOR CONNECTIONS*;

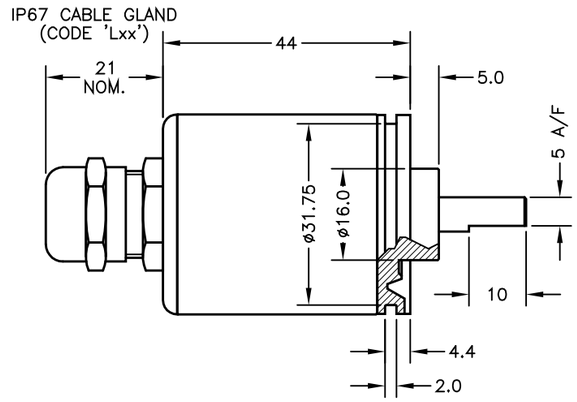
3 CORE	CONNECTOR	
RED	:1	+Ve
BLACK	:3	0V
WHITE	:2	OUTPUT
SCREEN	:4	BODY

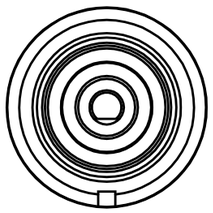
*CONNECTORS; MAXIMUM CONDUCTOR CROSS SECTION 0.75mm²
RANGE OF DISPLACEMENT FROM 5° TO 20°, IN INCREMENTS OF 1°.
BODY MATERIAL:– STAINLESS STEEL.
FLANGE BASE MATERIAL:– STAINLESS STEEL.
SERVO MOUNT MATERIAL:– STAINLESS STEEL.
FURTHER OPTIONS:
SPRING RETURN (CODE 'N') ~ PHYSICAL STOPS ±55°
NOTE STANDARD DEVICE HAS NO STOPS.

NOTE:– READ INSTALLATION SHEET M502–19 FOR FULL INSTRUCTIONS FOR USE.

ATEX APPROVED TO
Ex I/II M1/1GD
EEx ia I/IIC T4 (Ta= –40° to +80°C)
Ex iaD 20 T135°C (Ta= –40° to +80°C)
Ui 11.4V, Ii 0.2A, Pi 0.51W
APPROVED FOR USE IN CONJUNCTION WITH A GALVANICALLY ISOLATED BARRIER.







SERVO MOUNT
(CODE 'P')

A	FIRST ISSUE.	PDM
B	FLANGE TH'KNESS ADDED.	PDM
C	Ii 0.2A WAS 0.46A - RAN266	PDM
D	ADDITIONAL DIMS/VIEWS ADDED.	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.

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A	30/11/06		CHECKED BY	X ±0.4
B	05/01/10		RDS	X.X ±0.2
C	21/04/10			X.XX ±0.1
D	06/07/11			DIMS mm
		DESCRIPTION		
		M502 INTRINSICALLY SAFE SMALL ANGLE ROTARY SENSOR		
SCALE 10mm		DRAWING NUMBER M502-11		REV D
				SHEET 1 OF 1