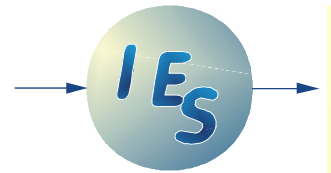


IES 2031

Incremental Sensor Interface



PRELIMINARY SHORTFORM DATA

Converts the movement of an incremental sensor head (like IES 2024) or the rotation of a rotary sensor to an analog output voltage compatible with common DAS.

- ☺ **Low supply current, DAS sensor supply sufficient**
- ☺ **Shunt test and ID-Module supported**



SPECIFICATIONS

Metrics	
Dimensions	59 x 57 x 32 mm ³
Weight	100 grams
Cable	5 m black EPD

Environment	
Temperature range	0 ...60 °C
Acceleration	Can be used in crash and sled tests

Electrical Interface	
Power supply	10 ... 16 V, max. 0,4 W
Supply current with RD58	16 mA
Supply current with IES2024	42 mA
Output resistance	100 ohms
Output signal range	+/- 5 V differential

Mode Setting	
Mode	Pin connections at mode select connector
0 (e.g. belt movement)	1-2 and 1-3
1 (general use)	1-3
2 (e.g. linear impactor movement)	1-2
3 (e.g. rotary sensor RD58-1024)	None/no connector

Characteristics			
Mode	Full scale	Resolution	Speed response
0	+/- 1024 mm	0.5 mm	50 m/s
1	+/- 2048 mm	0.5 mm	50 m/s
2	+/- 8192 mm	0.5 mm	50 m/s
3	+/- 5760° (+/- 16 U)	0.176°	45000°/s

Sensor Connector (Lemo FGG.1B.307)		
Pin	Signals 2024	Signals RD58
1	Signal B	Signal B
2	Supply +5V	Supply +5V
3	Supply IRED	
4	GND IRED	
5	GND	GND
6	Signal A	Signal A
7	Uref	2V5 (User must provide a reference voltage that can be made from the 5V supply with a simple resistive voltage divider)