



Introduction

Where an alternative output to the Reed Switch simple apparatus is required for hazardous area applications a hall effect sensor can be provided with a 0-5 Volt TTL output, two alternatives are available, one Intrinsically Safe the other Explosion Proof.

The ISH Model has certification to ATEX, CSA and IEC Ex standards whilst the EXH has ATEX and IEC Ex certification.

Explosion Proof Output Option – Model ExH

Specifications

Input Power: 4.7 TO 24 VDC
Reverse Polarity Protected

The output is a pulsed voltage from transistor with TTL/CMOS FAN-OUT of 5 TTL/CMOS loads.

Frequency Response: 0 to 15KHz

IR Leakage: 100 MOHMS @ 100 VDC
min

Maximum Air Gap: 0.060" with a 10 pitch gear

Hazardous Location: ATEX and IECEx Certified
Ex II 2G
Ex d IIC T6 to T4
ATEX CERT: LCIE 11 ATEX 3029 X
IECEX CERT: IECEX LCI11.0012 X

Physical Features:

Encapsulation: Epoxy Potted
Cable: PVC Jacketed Cable,
3 conductor 24AWG with
Braided Shield.

Wiring:

Red – Input Power (+)
Black – Common (-)
White – Pulse Output (+)

Temperature:

Class	Range
T4	-40°C to +100°C
T5	-40°C to +85°C
T6	-40°C to +70°C





Intrinsically Safe Output Option – Model ISH

Specifications

Input Power: 13 TO 30 VDC
(Class I, Zone 0, IIC)

Reverse Polarity Protected

Pulse Output Type: 5V TTL Output

Frequency Range: 0 to 15KHz

Hazardous Location:

Intrinsically Safe apparatus must be installed in accordance with installation instructions for Intrinsically Safe Systems in hazardous locations.

ATEX, IECEX and CSA w/NRTL/C
Certified for Intrinsic Safety
Ex II 1 G
Ex ia IIC T2 or T4 Ga
LCIE 03ATEX 6286 X
IECEX LCIE 14.0024 X

Class I, Zone 0, IIC
Class I, Groups A, B, C and D
Class II, Group E, F, G
Class III CSA LR 1102298

Physical Features:

Encapsulation: Epoxy Potted
Cable: PVC Jacketed Cable,
3 Conductor 24AWG with
Braided Shield.

Wiring:

Red – Power Supply Positive
Black – Common
White – Output Signal

Temperature:

Class	Range
T4	-40°C to + 51°C
T2	-40°C to + 125°C

Electrical Parameters:

UI = 30V
II = 200mA
PI = 0.75W
CI = 0F
LI = 0.5mH



DSPC – 1621

Trigear Manufacturing,
Unit 2, The Old Grain Store,
Ditchling Common Industrial Estate,
Ditchling, Sussex
BN6 8SG
United Kingdom
Tel: 01444 248777
Fax: 01444 243750
Email: sales@trigearflowmeters.com

Distributed by: