



ISOLATING SWITCH UNIT

Two independent incoming low energy switch input are transferred into galvanically isolated relay output with contacts rated for 2A at 250V AC, 50Hz.

APPLICATION :

- 1.As switching amplifier for small, non-self contained, N type Inductive and Capacitive Proximity Switches.
- 2.As interface unit for transferring digital signals from hazardous to non hazardous areas.
- 3.As trip amplifier in connection with variable resistors.

METHOD OF ACTUATION

- 1.N-type proximity sensor.
- 2.Contact closure - push buttons / Limit switches.
- 3.Variable resistor.

OPERATION

Mode Condition

Standard preset through S

NAMUR SWITCH I/P Terminals 1,3 - 4,6	OUTPUT CONTACT No. Terminals 7,8 - 10,11	SWITCH S1	SWITCH S2	SWITCH S3
CLOSED	de-energised	ON	ON	OFF
OPEN	Energised	OFF	OFF	OFF
	Energised	ON	ON	OFF
	de-energised	OFF	OFF	OFF

RELAY SETTING :

- * For NC contact, jumper between B & A, Y & Z.
- * For NO contact, jumper between A & C, X & Z.

(As shown on Printed circuit board outline).

LEAD BREAKAGE MONITORING

Lead breakage monitoring through Red LED in switch S1, S2, S3 at OFF.

TECHNICAL DETAILS

ART. NO. : [ODD 002 W2]

Power Supply Section	Terminals 9 & 12
Supply Voltage (nominal)	110 / 220V AC -10%, +15%
Hazardous Area Section	
Input	Potentiometer/ Mechanical Switch/NamurSensor(DIN 19234) Terminals 1(+) & 3(-) or 4 (+) & 6 (-)
Open Circuit Voltage / Short	
Circuit Current	8V DC / 8mA
Switching Point	1.2mA ... 2.1mA
Safe Area Section	
2 Output	SPST per channel
Output (Non-I.S) I	Terminals 7(+) & 8(-)
Output (Non-I.S) II	Terminals 10(+) & 11(-)
Parameters as per Certificate	
Output Voltage Maximum	12.6V
Output Current Maximum	15.86mA
Output Power Maximum	64mW
Permissible Circuit Values	
Explosion Group- IIA, IIB, IIC	II (1)G [Ex ia Ga] IIB/IIC
Maximum Capacitance	0.8mF
Maximum External inductance	74μH
Contact rating maximum	250V AC / 2A
Maximum Switching Frequency	10Hz
Weight	ca. 150g
Max. Ambient Temperature	+55°C

FEATURE:

- * 110/220VAC operated.
- * Dual Channel 2 independent isolated signal output (Potential free contacts).
- * Lead breakage monitoring.
- * 1500V isolation between inputs, power supply and relay output.

APPROVALS:

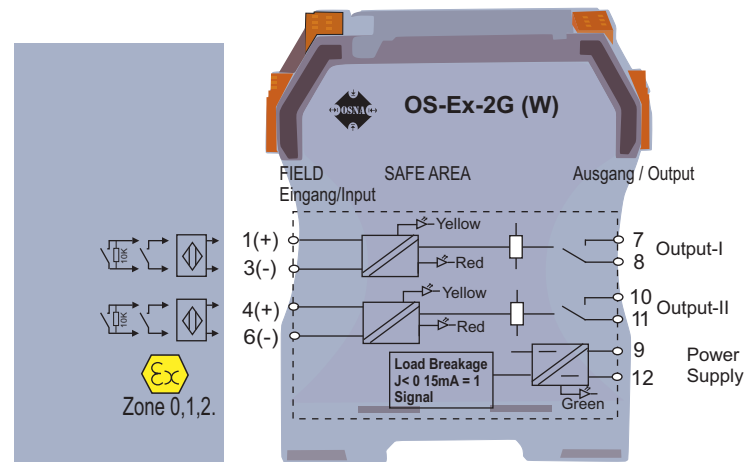
Confirming to EN 60079-0:2012 and EN 60079-11:2012.
ZONE & GAS GROUP: ZONE1 & 2 Gas Group:IIc

BUREAU VERITAS Certificate No. EPS 16 ATEX 1 019.

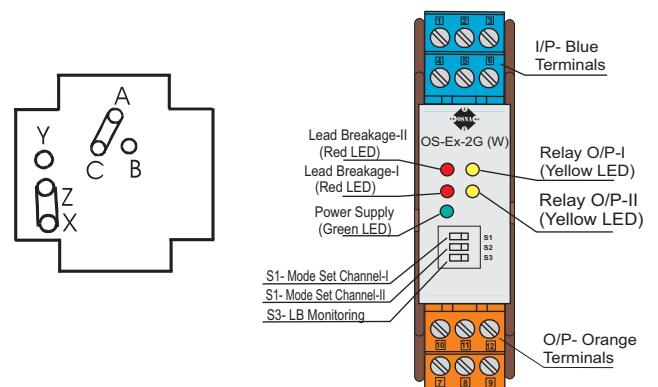
CIMFR Approval No.CIMFR/TC/P/2294

PESO Approval No.A/P/HQ/DL/104/5576(P410684)

CONNECTION



RELAY SETTING & ASSEMBLY



DIMENSIONS

