



## ISOLATING SWITCH UNIT

One independent incoming low energy switch input are transfered 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	OUTPUT CONTACT No. Terminals 7,8	SWITCH S1	SWITCH S3
CLOSED	de-energised	ON	OFF
OPEN	Energised	OFF	OFF
	Energised	ON	OFF
	de-energised	OFF	OFF

## RELAY SETTING :

- \* For NC contact, jumper between Y & Z.
- \* For NO contact, jumper between X & Z.

(As shown on Printed circuit board outline).

## LEAD BREAKAGE MONITORING

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

## TECHNICAL DETAILS

ART. NO. : [ODD 002 WO]

<b>Power Supply Section</b>	Terminals 9 & 12
Supply Voltage (nominal)	110 / 220VAC -10,+15 %
<b>Hazardous Area Section</b>	
Input	Potentiometer/ Mechanical Switch/NamurSensor(DIN 19234) Terminals 1(+) & 3(-)
Open Circuit Voltage / Short	
Circuit Current	8V DC / 8mA
Switching Point	1.2mA ... 2.1mA
<b>Safe Area Section</b>	
Output	SPST per channel
Output (Non-I.S)	Terminals 7 & 8
<b>Parameters as per Certificate</b>	
Output Voltage Maximum	12.6V
Output Current Maximum	15.86mA
Output Power Maximum	64mW
<b>Permissible Circuit Values</b>	
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
<b>Weight</b>	ca. 150g
<b>Max. Ambient Temperature</b>	-20°C TO 60°C

## FEATURE:

- \* 110/ 220 VAC operated.
- \* Single Channel 1 in dependent isolated signal output (Potential free contacts).
- \* Lead breakage monitoring.
- \* 1500V isolation between input, power supply and relay output.

## APPROVALS:

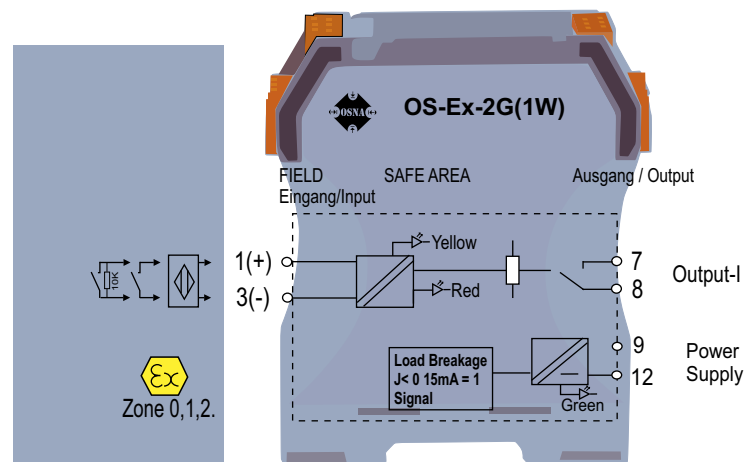
Confirming to EN 60079-0:2012 and EN 60079-11:2012.  
ZONE & GAS GROUP: ZONE1 & 2 Gas Group:IIC

BUREAU VERITAS Certificate No. EPS 16 ATEX 1 019.

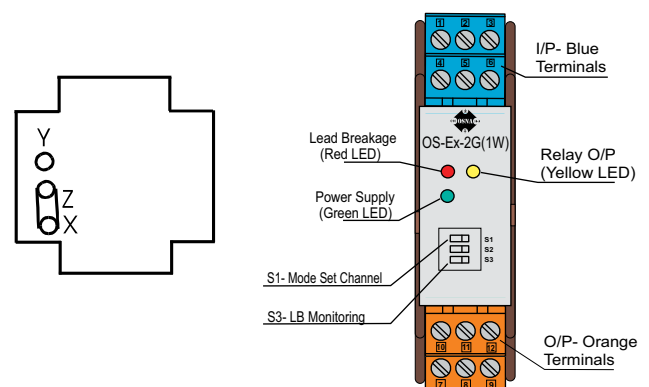
CIMFR Approval No.CIMFR/TC/P/2294

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

## CONNECTION



## RELAY SETTING & ASSEMBLY



## DIMENSIONS

