



Isolating Switch Unit

OS-Ex-2G(OT)

Two Gindependent incoming low energy switch input is transferred into galvanically isolated output transistor.

INSTALLATION :

The unit can be clipped on to 35mm rail to DIN 46277.

METHOD OF ACTUATION

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

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.

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

LEAD BREAKAGE MONITORING

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

TECHNICAL DETAILS

ART. NO. : [ODD 003 W]

Power Supply Section	Terminals 9(-) , 12(+)
Supply Voltage (nominal)	24V DC $\pm 10\%$
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	74 μ H
Contact rating maximum	250V AC / 2A
Maximum Switching Frequency	10Hz
Weight	ca. 150g
Max. Ambient Temperature	+55°C

FEATURE:

- * DC 24 V operated.
- * Dual Channel (2 independent isolated signal transistor output)
- * Lead breakage monitoring.
- * 1500V isolation between inputs, power supply and transistor output.

APPROVALS:

Confirming to EN 60079-0:2012 and EN 60079-11:2012.

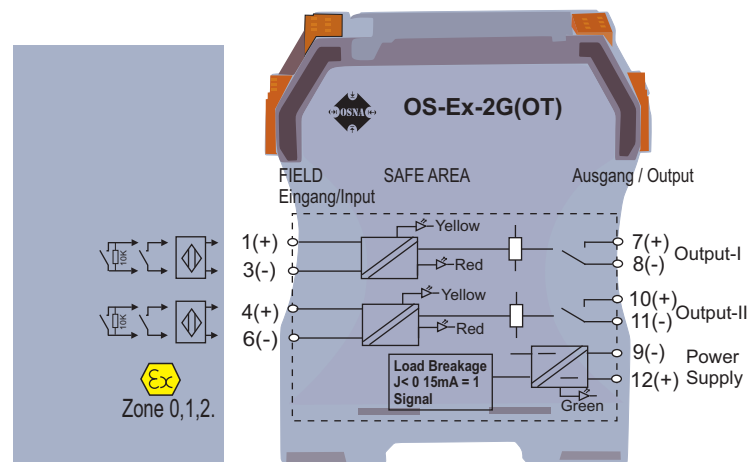
ZONE & GAS GROUP: ZONE1 & 2 Gas Group: IIC

BUREAU VERITAS Certificate No. EPS 16ATEX 1 019.

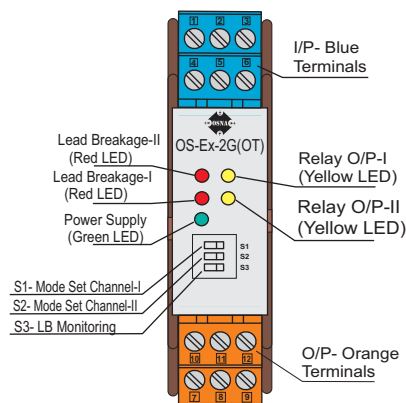
CIMFR Approval No. CIMFR/TC/P/2294

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

CONNECTION



RELAY SETTING & ASSEMBLY



DIMENSIONS

