



Isolating Switch Unit

OS-Ex-2G(1 OT)

One independent 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	OUTPUT CONTACT No. Terminals 7,8	SWITCH S1	SWITCH S3
CLOSED	de-energised	ON	OFF
	Energised	OFF	OFF
OPEN	Energised	ON	OFF
	de-energised	OFF	OFF

LEAD BREAKAGE MONITORING

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

TECHNICAL DETAILS

ART. NO. : [ODD 009 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(-)

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(-)

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
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Max. Ambient Temperature	+55°C
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FEATURE:

- * DC 24 V operated.
- * Single Channel (1 independent isolated signal transistor output)
- * Lead breakage monitoring.
- * 1500V isolation between input, power supply and transistor output.

APPROVALS:

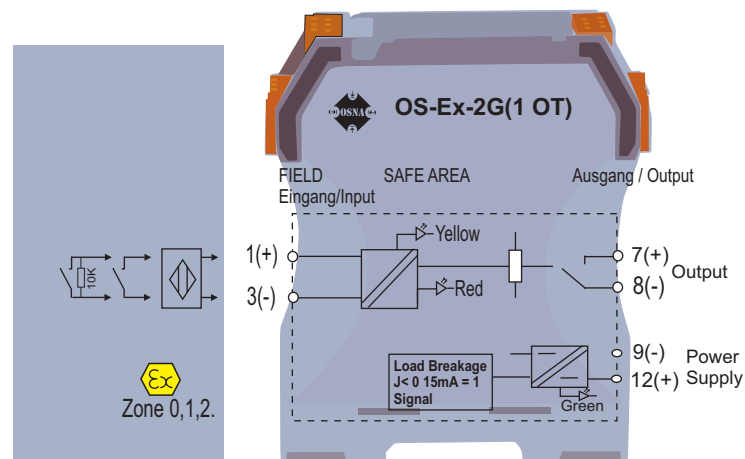
Confirming to EN 60079-0:2012 and EN 60079-11:2012.
ZONE & GAS GROUP: ZONE1 & 2 Gas Group:IIC

BUREAU VERITAS Certificate No. EPS 16ATEX 1 019.

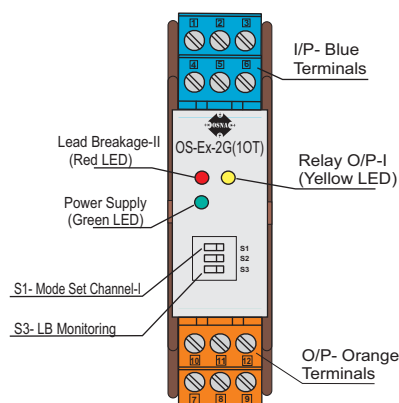
CIMFR Approval No.CIMFR/TC/P/2294

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

CONNECTION



SETTING & ASSEMBLY



DIMENSIONS

