

Barrier supplied is a Turck Banner IM1 Range.

IM1-12Ex-R is a single channel unit
IM1-22Ex-R is a dual channel unit.



Ex ia Ga IIC

IM1-12Ex-R Single OLE Bund Probe B8 or Water B2 or B6
IM1-22Ex-R Dual OLE Probes as above.

These are for Reed Switch devices (SIMPLE APARATUS)

NAMUR Inputs

CH 1

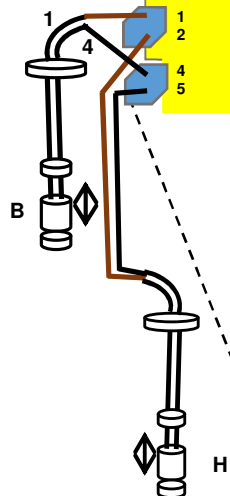
1-4 IN

10-7 OUT

CH2

2-5 IN

9-8 OUT



ZONE 0/1

**BUND SENSOR / HIGH
ALARM SWITCH**

4-20 mA Output has two options
Passive = External power supplied and reads the 4-20 mA
from the Gauge. (Proportional to Litres)
Active/ Loop = Bottom Connections, when Gauge powers the
loop and provides 4-20 mA proportional to Litres (Standard)

24 vdc power required.
Minimum 80 mA
Max draw 120 mA

24 vdc Outputs for
Sirens / LED's,
Relays ETC

ZONE 2 / SAFE AREA.

OLE Enclosures are IP65 Sealed

Mains power supply shall be installed in such a way that
the Zone 0/1 cable entries do not come closer than 50
mm to AC Power Cables.

Separate Power supply options are
available

Live N E
90/240 vac 50/60 Hz

Barrier supplied is a Turck Banner IM33 Range.

IM33-11Ex-Hi/24VDC is a single channel unit
IM33-22Ex-Hi/24VDC is a dual channel unit.



Ex ia Ga IIC

11Ex VERSION IS FOR ONE SENSORS / DISPLAY,
1= +Brown from Sensor
2= - Green from Sensor
AND
7= + Brown to SIG on Gauge 4-20 mA IN
10= - Green to GND on Gauge 4-20 mA IN

22Ex VERSION IS FOR TWO SENSORS/ DISPLAYS,
Second sensor wires as follows.
4= +Brown from Sensor
5= - Green from Sensor
AND
8= + Brown to SIG on Gauge 4-20 mA IN
9= - Green

Cut back additional cores as not used.
Suitably Insulate to avoid contact with any
connections

ZONE 0/1

TANK SENSOR LITRES

PRESSURE SENSOR
4-20 mA

A12 0-3000 mmwc
A14 0-5000 mmwc
A16 0-10,000 mmwc
A18 0-20,000 mmwc
A20 0-30,000 mmwc

OR

+ Manufactures P.No.

Differential Pressure Sensor

FD11 & DP12 0-3000 mmwc which is for Vapour recovery Tanks

OR

DPE5 Special, which is for High Pressure CO2 and similar tank.



Z:\D-Products\Z5020\Manual\Old Data\Z5020 Wiring diagram 2 x B8 or B2 V3.0.docx

**Description : ATEX Zone 0/1 Tank
Sensors and Zone 2 Gauge fitting.
Wiring diagram with H & B connected
OLE Z5020-1A-ATEX range only.
II 3G Ex e IIC T6 IP65 Zone 2/22**

Rev 00 Initial Release Sept 2018

**Drg No Wiring-ATEX- Axx +HB
By BC**

Dated 21 Jan 2019 REV 3.0