Z5020 ATEX WIRING DIAGRAM

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

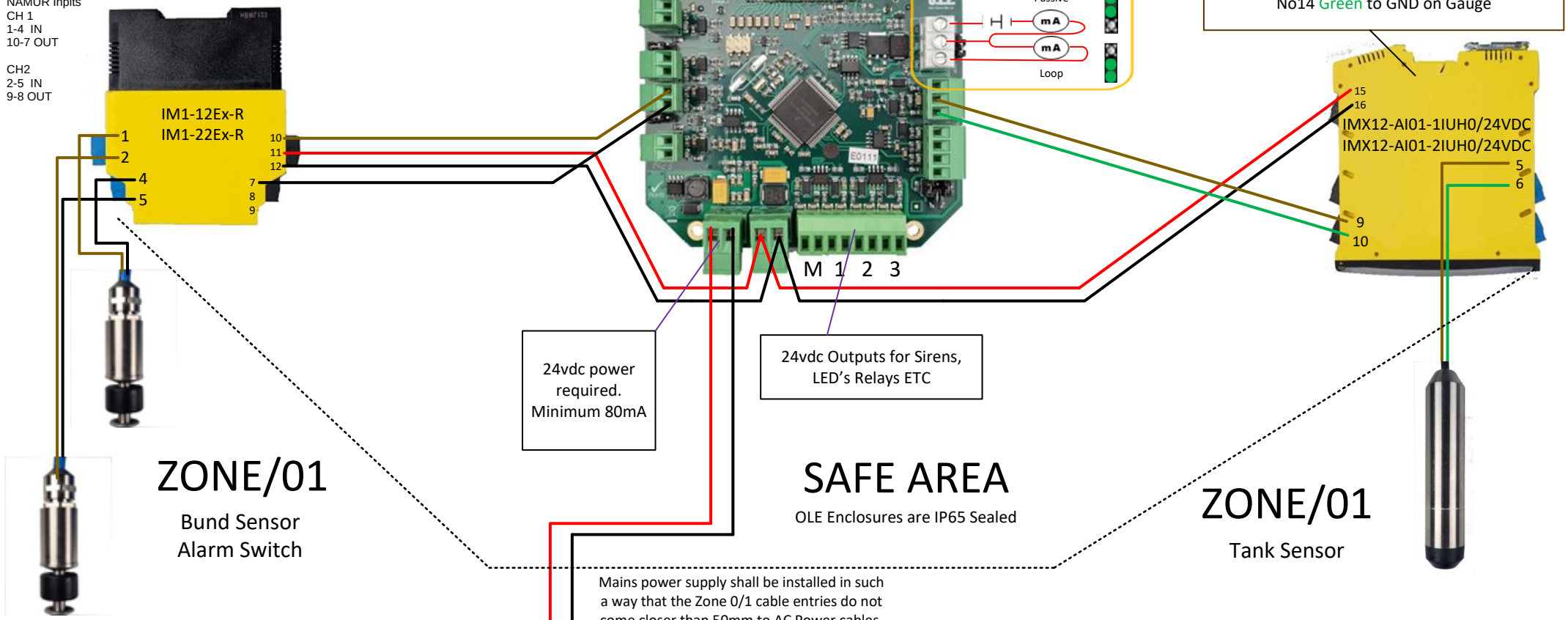
IM1-12Ex-R Single OLE Bund Probe B8 or Water B2 or B6
IM1-22Ex-R Dual OLE Probes as above.

These are for Reed Switch devices (SIMPLE APARATUS)
NAMUR Inpits
CH 1
1-4 IN
10-7 OUT

CH2
2-5 IN
9-8 OUT

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)

1UI Version is for one sensor/display
No5 Brown from sensor-No6 Green from sensor
No9 Brown to SIG on Gauge 4-20mA IN
No10 Green to GND on Gauge 4-20mA IN
2IU Version is for two Sensors/Displays
No7 Brown from sensor-No8 Green from sensor
No13 Brown to SIG on Gauge
No14 Green to GND on Gauge



24vdc power required. Minimum 80mA

24vdc Outputs for Sirens, LED's Relays ETC

ZONE/01

Bund Sensor
Alarm Switch

SAFE AREA

OLE Enclosures are IP65 Sealed

ZONE/01

Tank Sensor

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

L N E

100/240vac 50/60 Hz

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.

DRAWING No: S947 Iss 4

Date: **02/06/2023**