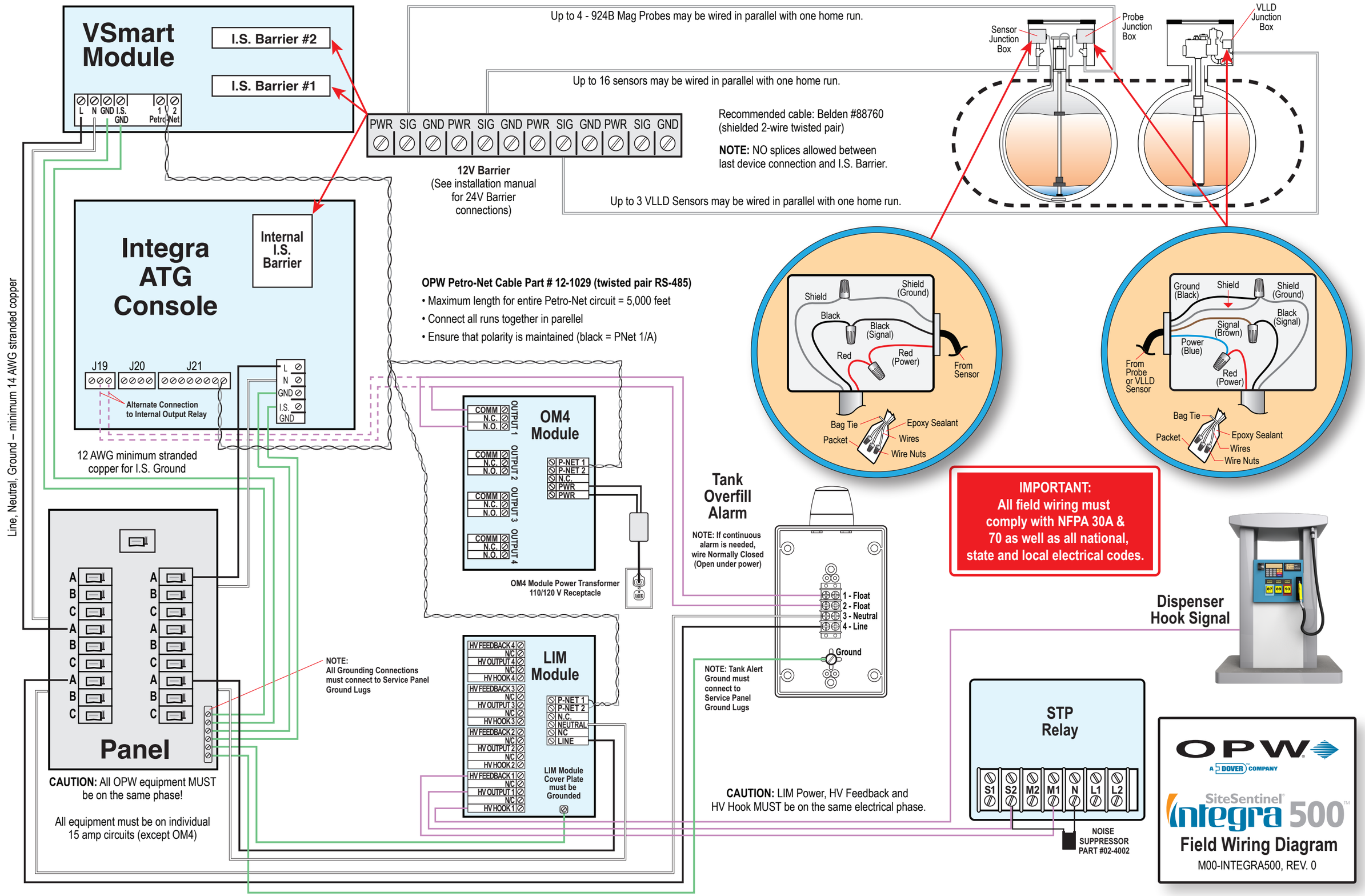
VSmart Module
I.S. Barrier #2
I.S. Barrier #1
L N GND I.S. GND
1 2 Petro-Net
Up to 4 - 924B Mag Probes may be wired in parallel with one home run.
Up to 16 sensors may be wired in parallel with one home run.
Up to 3 VLLD Sensors may be wired in parallel with one home run.
PWR SIG GND PWR SIG GND PWR SIG GND PWR SIG GND
12V Barrier
(See installation manual for 24V Barrier connections)
Recommended cable: Belden #88760 (shielded 2-wire twisted pair)
NOTE: NO splices allowed between last device connection and I.S. Barrier.
Sensor Junction Box
Probe Junction Box
VLLD Junction Box
Integra ATG Console
Internal I.S. Barrier
J19 J20 J21
Alternate Connection to Internal Output Relay
L N GND I.S. GND
12 AWG minimum stranded copper for I.S. Ground
Line, Neutral, Ground – minimum 14 AWG stranded copper
3-Hole Drill Area
OPW Petro-Net Cable Part # 12-1029 (twisted pair RS-485)
• Maximum length for entire Petro-Net circuit = 5,000 feet
• Connect all runs together in parellel
• Ensure that polarity is maintained (black = PNet 1/A)
OM4 Module
COMM N.C. N.O. OUTPUT 1
COMM N.C. N.O. OUTPUT 2
COMM N.C. N.O. OUTPUT 3
COMM N.C. N.O. OUTPUT 4
P-NET 1 P-NET 2 N.C. PWR PWR
OM4 Module Power Transformer 110/120 V Receptacle
Shield
Shield (Ground)
Black
Black (Signal)
Red
Red (Power)
From Sensor
Bag Tie
Packet
Epoxy Sealant
Wires
Wire Nuts
Ground (Black)
Signal (Brown)
Power (Blue)
From Probe or VLLD Sensor
Tank Overfill Alarm
NOTE: If continuous alarm is needed, wire Normally Closed (Open under power)
1 - Float
2 - Float
3 - Neutral
4 - Line
Ground
NOTE: Tank Alert Ground must connect to Service Panel Ground Lugs
IMPORTANT: All field wiring must comply with NFPA 30A & 70 as well as all national, state and local electrical codes.
Dispenser Hook Signal
A B C A B C A B C
Panel
CAUTION: All OPW equipment MUST be on the same phase!
All equipment must be on individual 15 amp circuits (except OM4)
NOTE: All Grounding Connections must connect to Service Panel Ground Lugs
LIM Module
HV FEEDBACK 4 N/C HV OUTPUT 4 N/C HV HOOK 4
HV FEEDBACK 3 N/C HV OUTPUT 3 N/C HV HOOK 3
HV FEEDBACK 2 N/C HV OUTPUT 2 N/C HV HOOK 2
HV FEEDBACK 1 N/C HV OUTPUT 1 N/C HV HOOK 1
P-NET 1 P-NET 2 N.C. NEUTRAL NC LINE
LIM Module Cover Plate must be Grounded
CAUTION: LIM Power, HV Feedback and HV Hook MUST be on the same electrical phase.
STP Relay
S1 S2 M2 M1 N L1 L2
NOISE SUPPRESSOR PART #02-4002
OPW
A DOVER COMPANY
SiteSentinel Integra 500
Field Wiring Diagram
M00-INTEGRA500, REV. 0