



THE NEXT GENERATION OVERFILL SENSOR

SMARTER SENSING.
FASTER DIAGNOSTICS.
GREATER COMPATIBILITY.



**BUILT TO LAST.
BACKED TO PERFORM.**



HYBRID
2-WIRE + 5-WIRE
COMPATIBILITY



HYBRID
Compatibility

2-wire & 5-wire
in one sensor



CLEVER
Dual-Point Sensing

Enhanced protection
and smoother loading



ALERTIVE
Diagnostics

Instant visual alerts
for faster resolution



ANTI-THEFT
Protection

Secure design
against tampering



SNAP FIT
Installation

Tool-free assembly
and maintenance



DYNAMIC SEAL
& LOCK

Superior sealing
and durability



VERSATILE
Design

Fuel and chemical
applications

SAFER LOADING. SMARTER SENSING. FUTURE-READY PERFORMANCE.

MODERN FLEETS DEMAND GREATER FLEXIBILITY

Today's tanker fleets and distribution networks operate across multiple regions with different loading systems, wiring requirements and maintenance standards.

Managing separate sensors for different applications increases inventory costs, complicates procurement and creates unnecessary operational risk.



COMMON CHALLENGES



INVENTORY COMPLEXITY

Managing separate 2-wire and 5-wire sensor inventories.



COMPATIBILITY ISSUES

Risk of incorrect sensor selection and installation.



MAINTENANCE DOWNTIME

Lengthy troubleshooting and fault identification.



FLEET STANDARDISATION

Difficulty implementing a single solution across multiple markets.

THE SAFFZEN SOLUTION

ONE SENSOR. GLOBAL COMPATIBILITY.

Saffzen Premium combines Hybrid Wiring Compatibility with advanced sensing technology to provide a single, future-ready overfill prevention platform.

2-WIRE
SYSTEMS



+

5-WIRE
SYSTEMS



=



**ONE
SENSOR
FITS ALL**



SINGLE SKU

Simplify inventory across your fleet.



COST SAVINGS

Reduce stockholding and carrying costs.



SIMPLIFIED PROCUREMENT

One sensor for multiple markets and systems.



REDUCED RISK

Eliminate compatibility errors and installation mistakes.



GLOBAL READY

Engineered for fleets operating across multiple regions.



Saffzen Premium – the smarter choice for modern tanker fleets.

ENGINEERED FOR THE FUTURE OF TANKER LOADING

WHAT IS SAFFZEN PREMIUM ?

Saffzen Premium combines years of field-proven overfill prevention experience with advanced engineering innovations designed to improve safety, flexibility and operational efficiency.

ADVANCED. MODULAR. RELIABLE.

Built with quality components for superior performance and durability.



KEY DIFFERENTIATORS



HYBRID

Supports both 2-wire and 5-wire systems.



CLEVER

Dual-point sensing for enhanced loading continuity.



ALERTIVE

Visual diagnostics for instant fault identification.



ANTI-THEFT

Tamper-resistant design to protect against theft and unauthorised access.



SNAP FIT

Tool-free installation and maintenance.



DYNAMIC SEAL & LOCK

Advanced sealing technology for superior protection.

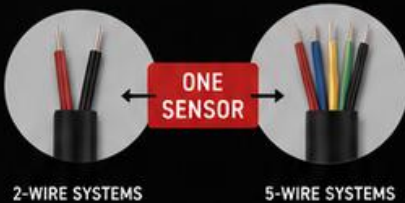


VERSATILE

Modular design suitable for fuel and chemical applications.

1 HYBRID WIRING COMPATIBILITY

One sensor supports both 2-wire and 5-wire configurations without hardware modification.

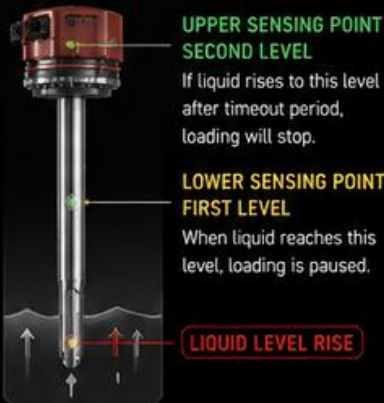


BENEFITS

- ✓ Single SKU inventory management
- ✓ Reduced stockholding costs
- ✓ Simplified procurement
- ✓ Global compatibility

2 CLEVER DUAL-POINT SENSING

Provides a second level of protection during overfill events.



BENEFITS

- ✓ Reduced loading interruptions
- ✓ Improved operational efficiency
- ✓ Enhanced overfill protection

3 ALERTIVE VISUAL DIAGNOSTICS

Instant fault visibility without disassembly. Traditional systems often require multiple diagnostic steps to identify faults. Alertive allows technicians to quickly identify issues and reduce downtime.

STATUS INDICATION

	NORMAL OPERATION System operational
	WARNING Action recommended
	FAULT Immediate attention required

BENEFITS

- ✓ Faster troubleshooting
- ✓ Reduced maintenance costs
- ✓ Improved uptime



SAFETY. SMART TECHNOLOGY.
SUPERIOR PERFORMANCE.

Saffzen Premium is built to deliver maximum reliability, flexibility and performance in the most demanding loading environments.

SAFER LOADING.
SMARTER SENSING.
FUTURE-READY PERFORMANCE.

ADVANCED ENGINEERING. BUILT FOR RELIABILITY.

Every component of Saffzen Premium is engineered to deliver maximum protection, durability and performance in the most demanding environments.



1 ANTI-THEFT DESIGN

SECURE. PROTECTED. RELIABLE.

Tamper-resistant design prevents unauthorised access to internal components and protects against fuel theft.

- ✓ Secure housing architecture
- ✓ Concealed locking mechanism
- ✓ Deters tampering and bypass attempts
- ✓ Maintains serviceability for authorised technicians

2

SNAP FIT TECHNOLOGY

TOOL-FREE. FAST. CONVENIENT.

Precision-engineered snap fit design eliminates the need for tools and reduces installation and maintenance time.

- ✓ Tool-free assembly and disassembly
- ✓ Faster installation
- ✓ Simplified servicing
- ✓ Reduced maintenance costs



3

DYNAMIC SEAL & LOCK

SUPERIOR SEALING. MAXIMUM PROTECTION.

Advanced dual-stage sealing system provides enhanced protection against leaks, vapour and contaminants.

- ✓ Dual-stage sealing for ultimate reliability
- ✓ Resists fuel, chemicals and harsh conditions
- ✓ Longer service life
- ✓ Reduced leak risk



PRIMARY SEAL
Dynamic O-Ring

SECONDARY SEAL
Locking Seal

4

VERSATILE DESIGN

ONE SENSOR. MULTIPLE APPLICATIONS.

Modular architecture with interchangeable lower housings for use in a wide range of fuel and chemical tanker applications.

- ✓ Fuel (Hydrocarbon) applications
- ✓ Chemical applications
- ✓ Future-proof flexibility
- ✓ Reduced inventory requirements



FUEL
APPLICATION



CHEMICAL
APPLICATION

EXPLODED VIEW

Precision-engineered components work together to deliver unmatched performance and reliability.



SNAP FIT TECHNOLOGY

Tool-free installation and maintenance with precision engineered locking mechanisms.



DYNAMIC SEAL & LOCK

Advanced dual-stage sealing technology overcomes the limitations of traditional single O-ring systems.



VERSATILE DESIGN

Interchangeable lower housing supports multiple applications and operating environments.



BUILT TO PERFORM



Engineered for harsh industrial environments



Tested for durability, reliability and performance



Wide operating temperature range



Designed to meet global standards



ENGINEERED EXCELLENCE.
TRUSTED PROTECTION.

Saffzen Premium combines innovative design and advanced engineering to deliver superior protection and peace of mind.



LONGER LIFE



LOWER COST



MAXIMUM SAFETY



BETTER PERFORMANCE

DESIGNED SMARTER. BUILT STRONGER. PROTECTING WHAT MATTERS.

DELIVERING VALUE. BUILDING PARTNERSHIPS. PROTECTING PERFORMANCE.

APG Industrial is your trusted partner for Saffzen overfill prevention solutions, providing expert support, local availability and industry-leading service.

WHY CHOOSE APG INDUSTRIAL?



AUTHORISED SAFFZEN DISTRIBUTOR

Genuine products with full manufacturer support and warranty.



TECHNICAL PRODUCT EXPERTISE

Knowledgeable team with deep industry and product understanding.



LOCAL SALES & SUPPORT

Responsive local team ready to assist when you need us.



INDUSTRY EXPERIENCE

Proven track record in fuel terminal and tanker loading solutions.



FAST RESPONSE TIMES

Quick turnaround on enquiries, quotations and after-sales support.



CUSTOMER-FOCUSED SERVICE

Long-term partnerships built on trust, reliability and performance.



KEY BENEFITS OF SAFFZEN PREMIUM



SIMPLIFY INVENTORY MANAGEMENT

One sensor fits both 2-wire and 5-wire systems.



REDUCE OPERATIONAL RISK

Enhanced overfill protection with dual-point sensing.



ELIMINATE COMPATIBILITY ERRORS

One solution for multiple markets and applications.



IMPROVE DIAGNOSTICS

Alertive diagnostics for instant fault identification.



INCREASE UPTIME

Faster troubleshooting and reduced maintenance time.



FUTURE-PROOF YOUR FLEET

Modular, versatile design for fuel and chemical applications.

saffzen
premium+

COMING SOON!



UNIVERSAL CONNECTIVITY. BUILT FOR TANKER SAFETY.

SAFFZEN™ 10 PIN 4J SLOT & 6 PIN 3J SLOT SOCKET

5&2-WIRE OPTIC OVERFILL SENSOR FOR TANK-TRUCK OVERFILL PREVENTION SYSTEMS



**BUILT TO LAST.
BACKED TO PERFORM.**



The Saffzen 101™ Overfill Prevention Sensor is an indispensable part of overfill systems in the transportation of liquid petroleum products with its high technology and unique patented design.



SUPERIOR QUALITY

Saffzen 101™ is a unique overfill sensor with 6 years warranty, kneaded with high technology, with superior quality standards.



LONG-LASTING

With the new "Double protection system" developed for Saffzen 101™, more life.



EASY SETUP

5x faster than the standard method, the assembly system that solves the cable clutter and can be integrated into all five-cable systems...



EXTRA DURABLE

Shock resistant, non-breaking, non-cracking special design it used optical lenses that were unaffected by scratches, resistant to fuel derivatives and hundreds of chemicals



ERGONOMIC STRUCTURE

Saffzen 101™ has a modular structure. The length of the pipe can be adjusted comfortably during the initial installation. No sensor change is needed for impact-induced pipe damage. The problem is resolved by making pipe replacement with affordable cost. In case of failure, part replacement is easily done.



SPARE PARTS WARRANTY

Saffzen 101™ 6 year warranty. In the event of failures that may occur at the end of the warranty period, there is the possibility of replacement of parts at much more affordable cost than sensor replacement.



FAST DELIVERY

Due to its central location, it has fast and cost-effective logistics opportunities all over the world.



PRICE-PERFORMANCE

Saffzen 101™ is ahead of its competitors on the price-performance curve by blending a high-quality and low-cost workforce.



SAFFZEN 101™
OVERFILL PREVENTION SENSOR

SAFFZEN 605™
THERMO OPTIC SOCKET



SAFFZEN 301™
GROUND BOLT

TECHNICAL SPECIFICATIONS

- ✓ Operating Temperature : -40°C to 70°C (-40°F to 140°F)
- ✓ Product Range : Gasoline blends & fuel-oils tanker trucks
- ✓ Exposed Materials : Aluminium, Zinc, Stainless Steel, Viton® seals, Epoxy, Teflon®, Fireproof tape, Special cables.
- ✓ Cable Entry : M20x1,5 threads two holes
- ✓ In accordance with EN13922
- ✓ Approvals : ATEX + EACEx + IECEx & FM (pending)
- ✓ Sensor Sensitivity : ±1mm
- ✓ Zone Specification : Zone 0
- ✓ EMC Test : Successfully Completed (Tested independently of the system.)
- ✓ Surge Test : 2.000 @voltage
- ✓ ESD Test : 16.500 @voltage

EAC Ex

CE



Ex
ATEX



* TÜV Italia Atex certificate is pending...

* India Atex certificate is pending...

ENGINEERED FOR LONG-TERM PERFORMANCE.

SAFFZEN™ 10 PIN 4J SLOT & 6 PIN 3J SLOT SOCKET
5&2-WIRE OPTIC OVERFILL SENSOR FOR TANK-TRUCK OVERFILL PREVENTION SYSTEMS

FEATURES & BENEFITS

Features	Benefits	Saffzen™	Others
Detects the Presence of a Liquid	Provides Overfill Protection	✓	✓
Wide Temperature Range	Usable in All Conditions	✓	✓
Compatible with API and EN systems	Wide Range of Uses	✓	✓
6 year Warranty	Peace of Mind	✓	✗
Double Electronic Protection	Long-Lasting Use	✓	✗
Under 3-Minute Installation on 5-Wire Systems	Operational Efficiency	✓	✗
Disassembly in 10 seconds	Operational Efficiency	✓	✗
Easy Adjustable Pipe	Operational Efficiency	✓	✗
Unbreakable, Crack-Proof, Scratch-Proof Optical Lens	Long-Lasting Use	✓	✗
Shockproof Optical Lens	Long-Lasting Use	✓	✗
Anti-Fog Optical Lens	Long-Lasting Use	✓	✗
Condensation Chamber	Long-Lasting Use	✓	✗
Resistant to Sudden Temperature Changes	Long-Lasting Use	✓	✗



ORDERING INFORMATION

Product / Model	Description	Order Code
Saffzen 101-5™ OPS	5-Wire Overfill Prevention Sensor	SF-SN101-5
Saffzen 101-2™ OPS	2-Wire Overfill Prevention Sensor	SF-SH101-2
Saffzen 101™ SH	Sensor Holder	SF-SP903
Saffzen 101™ SP	Sensor Probe	SF-SP101
Saffzen 101-5™ BB	Sensor 5-Wire Black Box	SF-BB101-5
Saffzen 101-2™ BB	Sensor 2-Wire Black Box	SF-BB101-2
Saffzenn 603™ AOS	Optic API Socket - 6 Pin / 3J Slot	SF-SC603
Saffzenn 604™ OS	Optic Socket - 6 Pin / 4J Slot	SF-SC604
Saffzenn 605™ TOS	Thermo Optic Socket - 10 Pin / 4J Slot	SF-SC605
Saffzen 705™ DM	5-Element Dummy	SF-SC605
Saffzen 707™ DM	7-Element Dummy	SF-SC605
Saffzen 903™ PS	Pressure Switch	SF-PS903
Saffzen 904™ GB	Ground Bolt	SF-GB904



UNIVERSAL COMPATIBILITY

Works with both API and EN loading systems.



RAPID INSTALLATION

Designed for quick installation and simplified maintenance.



LONG SERVICE LIFE

Built to perform in harsh tanker operating environments.



CORROSION RESISTANCE

High-quality materials engineered for fuel and chemical resistance.



SAFETY COMPLIANCE

Designed in accordance with EN13922 requirements.



GLOBAL READY

Suitable for tanker fleets operating across multiple regions.



ATEX APPROVED
Pending



EN13922
COMPLIANT



HEAVY-DUTY
CONSTRUCTION



API & EN
COMPATIBLE



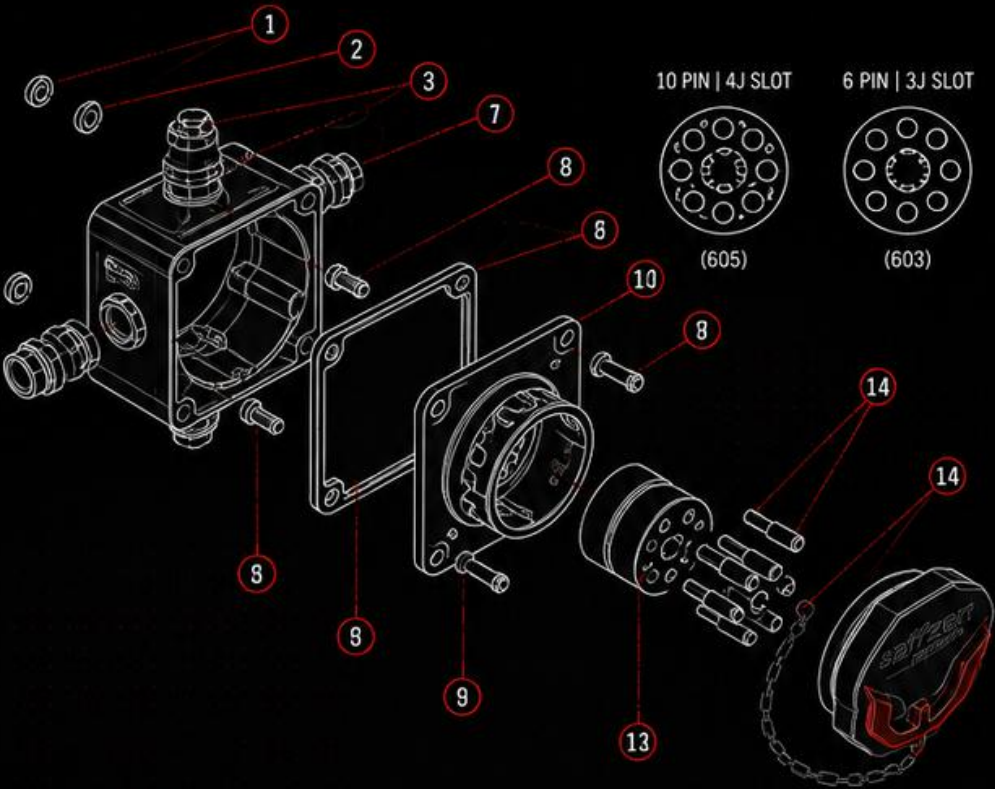
FAST
INSTALLATION



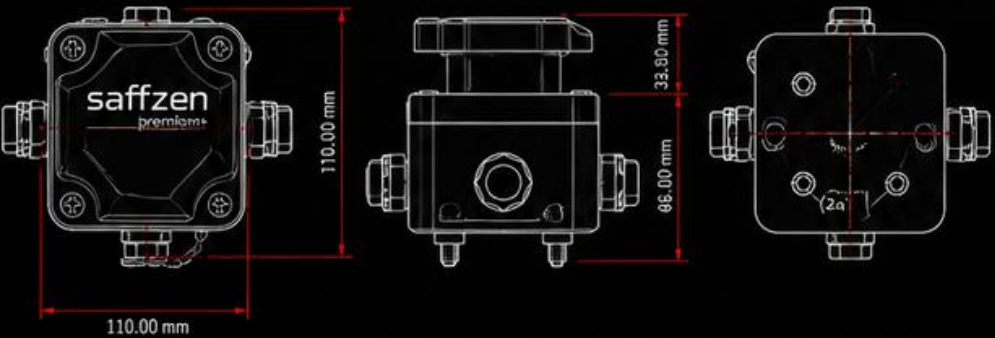
LONG SERVICE
LIFE

BUILT WITH PRECISION. DESIGNED FOR RELIABILITY.

SAFFZEN™ 10 PIN 4J SLOT & 6 PIN 3J SLOT SOCKET
5&2-WIRE OPTIC OVERFILL SENSOR FOR TANK-TRUCK OVERFILL PREVENTION SYSTEMS



DIMENSIONS



All dimensions in mm.

COMPONENT IDENTIFICATION

Item	Description	QTY
1	Screw, M8 x 1.25 x 20 mm	2
2	Spring Washer	4
3	"J" Slot Socket - 4	1
4	Gasket, Neoprene	1
5	Bolt, Hex Head	2
6	Washer	1
7	Plate	2
8	Plate	1
9	Spacer	1
10	Single Pin & Screw Insert	6
11	Contact	1
12	Ground Bolt	1
13	Pressure Switch	1
14	Chain & Cap Assembly (Not Shown)	1

ENGINEERED BENEFITS



RUGGED CONSTRUCTION

Built to withstand harsh tanker operating environments.



PRECISION ENGINEERED

Every component designed for exact fit and reliable performance.



EASY MAINTENANCE

Modular design allows quick disassembly and service.



LONG SERVICE LIFE

High-quality materials engineered for durability and reliability.



INDUSTRY COMPLIANCE

Designed in accordance with EN13922 requirements.



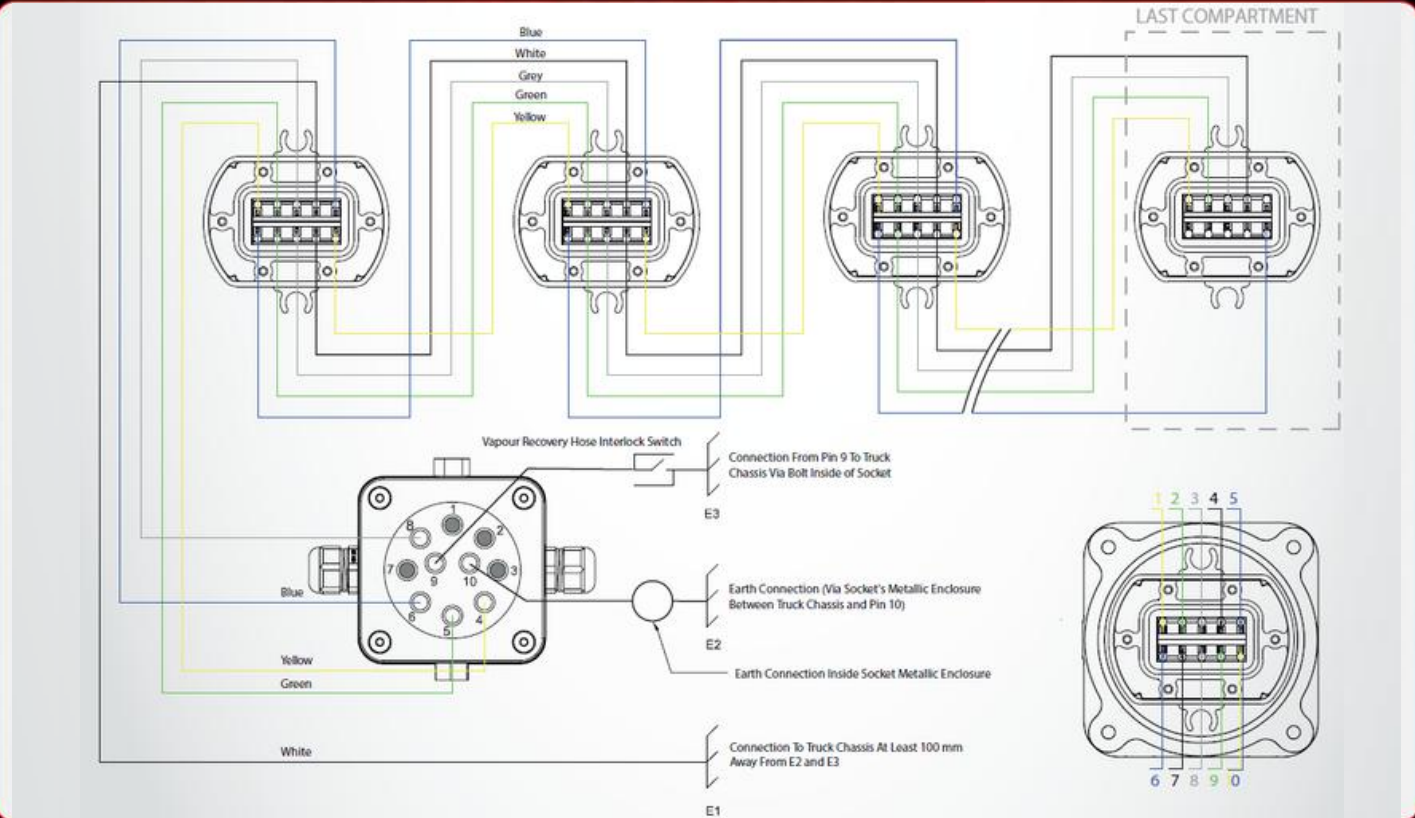
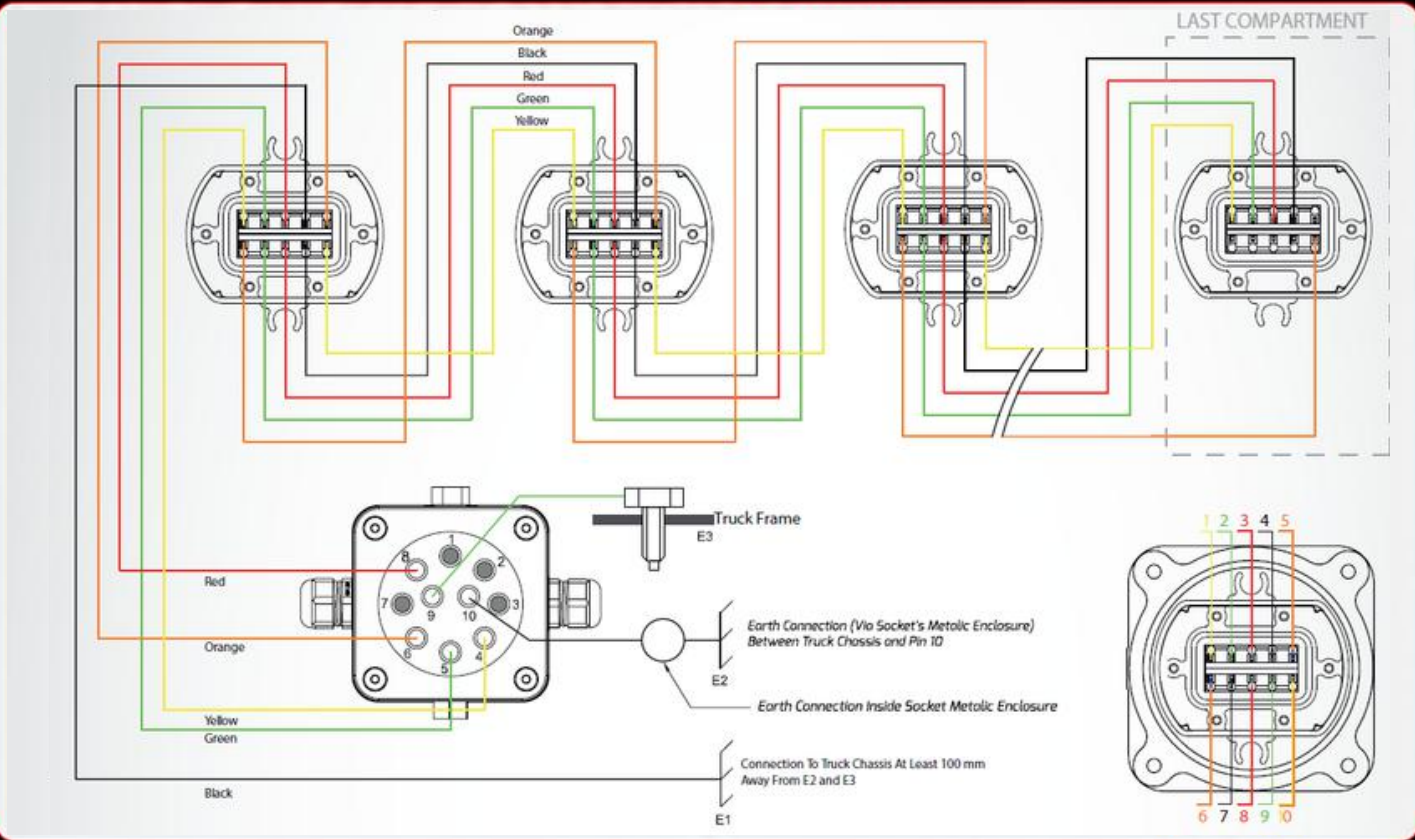
ABOUT SAFFZEN SOCKET SYSTEMS

Saffzen socket systems provide the critical interface between tanker overfill prevention equipment and loading terminal safety systems. Engineered for durability, compatibility and ease of installation, Saffzen sockets deliver dependable performance in demanding fuel transportation environments.



SAFFZEN™ 10 PIN 4J SLOT SOCKET

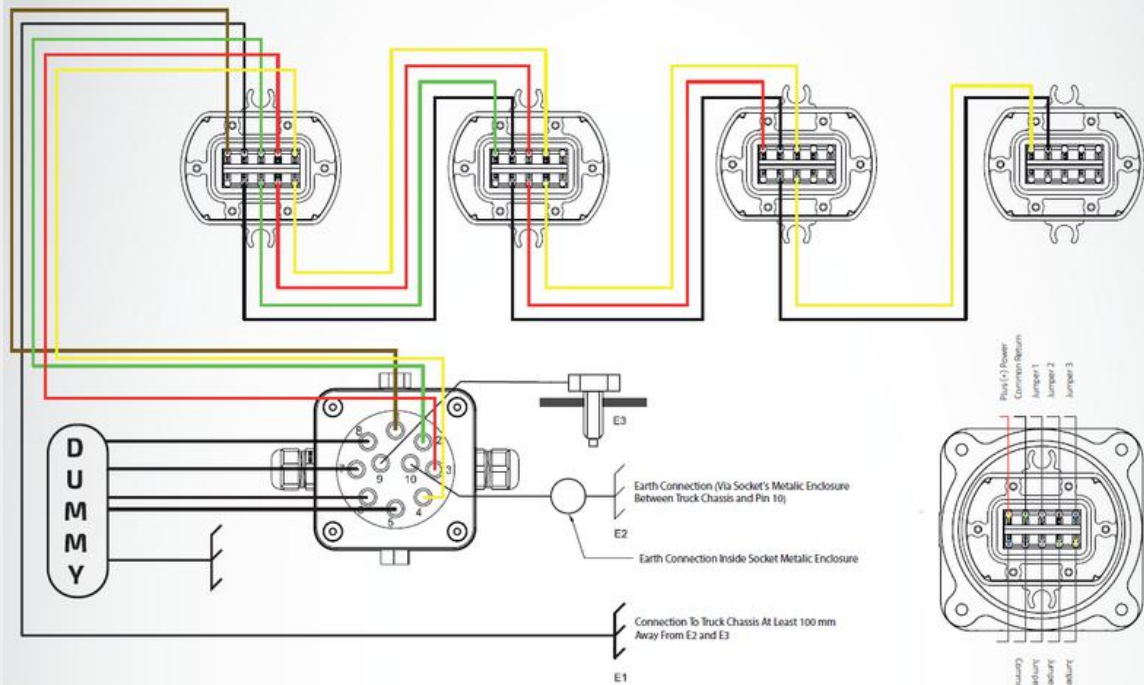
5-WIRE WIRING CONFIGURATIONS



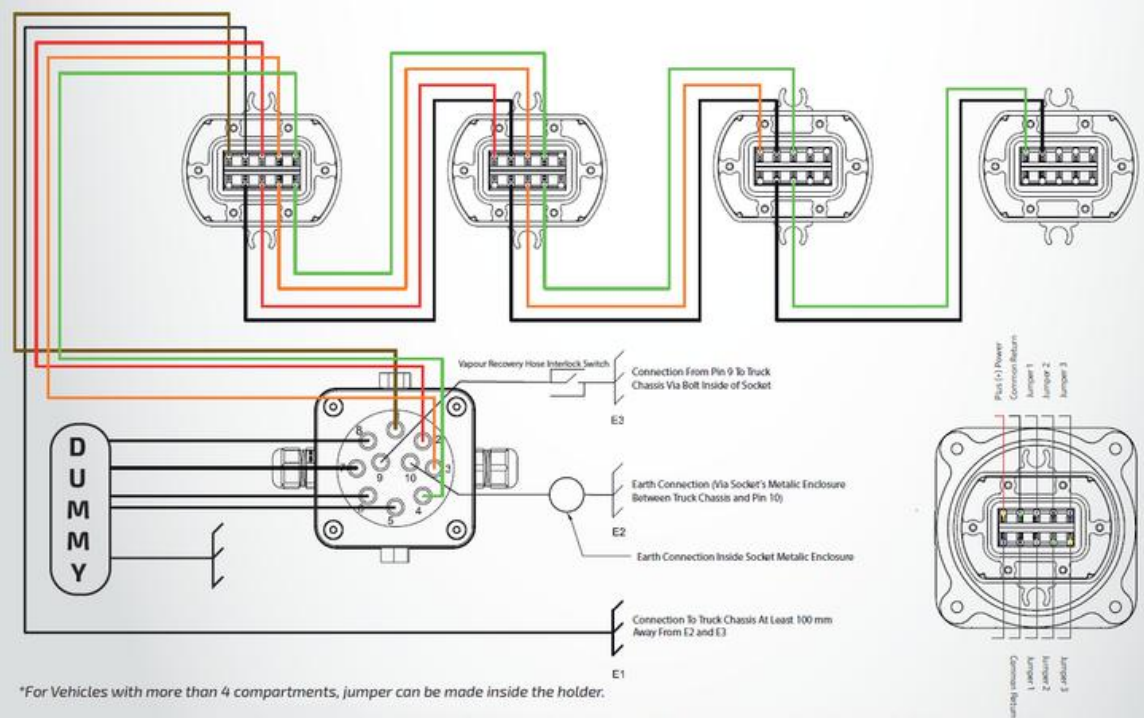
SAFFZEN™ 10 PIN 4J SLOT SOCKET

2-WIRE WIRING CONFIGURATIONS

RECOMMENDED CONNECTION DIAGRAM FOR ALL 2-WIRE API SYSTEMS



RECOMMENDED CONNECTION DIAGRAM FOR ALL 2-WIRE EN SYSTEMS



*For Vehicles with more than 4 compartments, jumper can be made inside the holder.



RELIABLE CONNECTIONS. PROVEN PERFORMANCE.

APG Industrial is your trusted partner for Saffzen Systems and complete tanker loading solutions.

Contact us today for expert support, product information and technical support.



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OUR FOOTPRINT

Proudly serving clients across Africa.



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