

Intrinsically safe products and SIL devices

From the latest intrinsically safe isolators to safety relays for high integrity applications, to enhanced power supply units and systems, here you can find a complete overview of the product range of GM International. Our products are certified up to SIL 3, offering the highest levels of functional safety for high integrity and critical applications.

Detailed descriptions of our product series with general features, related accessories, and technical selection tables to support you with the product that suits your application are available on our website www.gmintsr.com.

D5000 Series



Full range of Galvanic Intrinsically Safe Isolators for SIL 2 and SIL 3 applications

SIL 2 / SIL 3 INTRINSICALLY SAFE ISOLATORS

- Installation directly in Zone 2 - Division 2
- Certified for 20 years of useful lifetime
- DIN-Rail, Power Bus or Custom Termination Boards Installation
- Slim modules (12,5 mm width) Single or Dual channel
- Up to SIL 3 certification
- Marine Type Approval and G3 Coating



D6000 Series



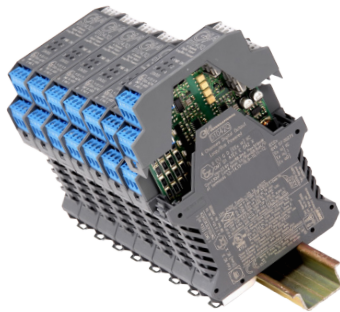
Galvanic Isolators for Non-Intrinsically Safe applications

FULL RANGE OF GALVANIC ISOLATORS FOR NON-INTRINSICALLY SAFE APPLICATIONS

- Modules suitable for SIL 2 applications according to IEC61508, IEC61511
- Single or multichannel versions available
- Configuration components are easily accessed by removing the side cover
- DIP switch configurability for easy field setup
- LED indication for power, signal status and line fault conditions
- Modules accept DC power supply over a wide range for 24 Vdc (20-30 Vdc) applications
- Wide operating temp. range: -40 to +60/+70 °C



D1000 Series



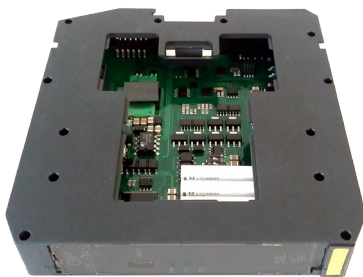
D1042Q

SIL 2 / SIL 3 INTRINSICALLY SAFE ISOLATORS

- Installation also directly in Zone 2
- Available for specific application and with Universal Input
- DIN rail or Termination Boards Installation



Safety Relays



SIL 3 Safety Relays according to IEC 61508 / 61511, with or without Line and Load Monitoring Detection

SIL 3 HIGH INTEGRITY SAFETY RELAYS

- Compatible with DO Card Line Monitoring Pulse Test
- Complete line and load monitoring available on SMART RELAY
- High availability and safety both for NE and ND loads
- SIL 2 certified Modbus RTU RS485 supported
- Coil-to-contact SIL 3 - TÜV Certified
- Extended T-proof Times
- Available for all Safety Function; ETS or DTS or Inverted



PSx1200 Series



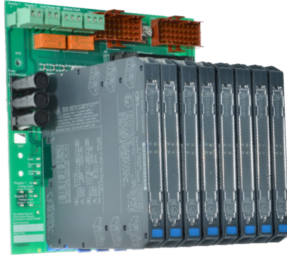
PSS1250

SIL 2 / SIL 3 POWER SUPPLIES

- Hot Swapping Certified in Zone 2
- Installation in Hazardous Area, close to the load: Less cables, lower voltage drop, lower costs
- Two or more Units can be paralleled for Redundancy or additional power with automatic load sharing without the need of external high dissipation diodes
- Continuous operation also in case of short on the output thanks to the High Fuse Breaking Capacity feature
- Marine Type Approval and G3 Coating



Termination Boards



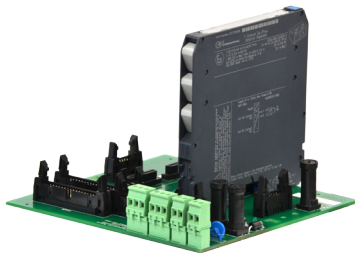
Standard or customized Termination Boards with customizable patch cable

UNIVERSAL TERMINATION BOARDS

- Suitable to host 8/16/32 D5000 or D5200 SIL 3 modules
- 12.5mm/22.5mm wide, single or double channel, up to 64 channels
- AI/AO – DI/DO – Temperature: Single or double channels
- Signal converter, Safety Relay: Single or double channel
- 24 Vdc redundant power supply, with window voltage monitoring and corresponding relay fault output
- Boards are available with custom connectors to directly interface any system PLC / DCS / ESD
- Cumulative fault relay output
- Redundancy available



HART Multiplexer System



HART Interface System for IS and Non-IS signals

COST-EFFECTIVE HART INTERFACE SOLUTION

- Reduced components: only 31 multiplexer modules GM5700 to control 7936 channels
- Less spare parts: stock is substantially reduced
- Wirings are reduced: less components, less cables, less wirings
- Increased performances: 115.200 bps baud rate
- Certified for SIL 3 applications: our HART Multiplexer System is suitable for SIL 3 applications according to IEC 61508 and IEC 61511



T3000 Series

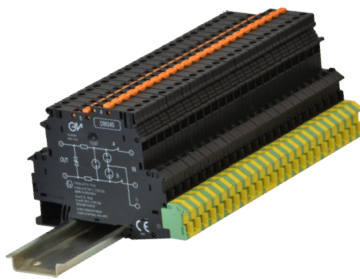


Loop Power I.S. Field Display for Temperature and Analog or Frequency Signals

LOOP POWER I.S. FIELD DISPLAY

- ATEX, FM & FM-C, Russian certifications
- Large LCD Display, 20 mm high
- Limited voltage drop (less than 1 V)
- IP66 Enclosure with 2 separated chambers
- Wall, Pipe-Post, or Panel mounting
- Zone 0, IIC T5 / T6 or Div. 1 Installation
- In-field configurability via dedicated push-buttons
 - decimal point
 - indicated range between -19999 and +19999
 - direct or reverse indication
- Under and Over range detection via blinking display
- Protected slot available for engineering value label

D9000 Series



D9024S

SURGE PROTECTORS

- SIL 3 according to IEC 61508:2010 Ed.2
- Input from Zone 0 (Zone 20), installation in Zone 1 and 2
- Disconnection of signal circuit by disconnect knife
- Protection of a floating double wire in intrinsically safe circuits
- High Density, 6.2 mm per channel
- HART compatible
- Covers available to terminate a row of D9024S

D2000 Series



Intrinsically Safe Multiplexer

INTRINSICALLY SAFE TEMPERATURE AND DIGITAL MULTIPLEXERS

- Field units can be placed up to 4 km from Gateway
- Drastically reduces field wiring and installation costs
- Eliminates the need of PLC - DCS AI cards
- Gateway D2050M can be installed in Zone 1 / Div. 1 by using an explosion proof enclosure



Software and configuration tools



Configuration software

CONFIGURATION SOFTWARES AND WEB-BASED TOOLS

Software and configuration tools facilitate selection, parameterization, and operation of several GM International components.

Visit our website www.gmintsr.com to find a wide range of customized softwares and online tools.