

RELIABLE AUTOMATION DELIVERED **GLOBALLY**

Certified products, reliable protection, and trusted engineering support for people and industries.

Process, Factory, & Terminal
Automation solutions from
Atex Engineering Systems



PRODUCT OVERVIEW **2026**

atexsystems.com/products





Intertek



Atex Engineering Systems Engineered for **Your** Operations

When your operations involve explosive atmospheres, the automation and safety products you specify carry real responsibility. Atex Engineering Systems supplies certified solutions for oil and gas, chemical, pharmaceutical, and mining facilities where compliance is not optional. We combine in-house capabilities with carefully selected partnerships across established producers, giving you access to a comprehensive range of ATEX, IECEx, PESO, and CIMFR certified products through a single, accountable source.

Our technical foundation is informed by decades of work in hazardous-area safety, including expertise inherited from OSNA Electronics, whose engineering in certified safety interfaces reaches back to 1985. That heritage shapes how we operate disciplined processes, stable designs, and accountability at every stage. From inquiry to installation, you work with people who understand both the technical standards and the operational realities of hazardous-area work.

That is what we offer, and we take it seriously.

Helping

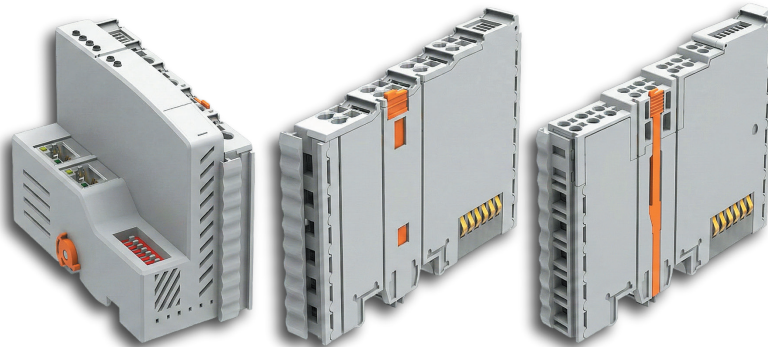
Oil & Gas | Chemicals | Pharmaceuticals | Mining & Metals | Marine & Offshore | Energy Solutions | Defense | Aviation |
Food & Beverage | Manufacturing

industries in

Middle East | Southeast Asia | Africa | Germany | India | Sri Lanka

Process Automation

Field Instrumentation | Signal Conditioning | Safety Barriers



EtherCAT Coupler

100 Mbps | DIP addressing | 32 module capacity

16-Channel Digital Input

NPN | 24VDC | LED status | Optocoupler isolation

4-Channel Analog Input

0-10V | 4-20mA | 16-bit resolution



Zener Barriers

Ex ia IIC
28V typical Zone 0/1/2
4-20mA
RTD
Thermocouple loops

Safety Relay Module

E-stop
Safety door
Light curtain interface
SIL3
PLe
TÜV

DIN Rail Enclosure

17.7mm width
PA66 flame-retardant
12 positions
IP20
-40°C to +105°C

Ultra-Thin Relay Base

6.5mm width
Push-in terminals
277V 6A

Flameproof Enclosures

Ex d IIC/IIB | Zone 1/2
IP66/67 Aluminum alloy | Cast iron options

Transmitter Power Supply

0/4-20mA repeater | 2-wire/3-wire compatible
1500V isolation | Smart transmitter capable

Trip Amplifiers

NAMUR input | Relay/transistor output
Lead breakage monitoring | Zone 1/2 interface

Speed Monitoring Units

Overspeed/underspeed detection | NAMUR compatible
Adjustable trip points | Rotating equipment protection



Factory Automation

Connectors | Sensors | Safety Devices

M12 Circular Connectors

3-12 pin | A/B/D/X-coded | Sensor |
Ethernet | Fieldbus | IP67/68/69K
| Screw/bayonet coupling

Inductive & Capacitive Sensors

M8/M12/M18/M30 threaded | 1.5-
40mm range | Plug/wire type | AC/DC
| NPN/PNP | NO/NC



Photoelectric Sensors

Standard diffuse 10 to 100 cm | Red
light & infrared Label sensors | Color
mark detection (RGB) M18 & compact
 housings | OI ML R85 custody transfer
| PNP/NPN | NO/NC | 10-30VDC

Incremental Rotary Encoders

ISC38 Series | 6mm shaft | 100-5000
PPR Push-pull NPN/PNP | ABZ output
| 5-24VDC | IP50 | -10°C to +70°C



Safety Light Curtains

380mm to 1800mm protection height
| 30mm body detection
2cm beam spacing | Through-beam |
Relay output | <50ms response
Type 2 | Type 4 | EN/IEC 61496 | CE |
TÜV | SIL-rated
Muting & blanking functions



Terminal Automation

Loading Arms | Tank Gauging | Earth Monitoring



Top Loading Arms

2-6" bore | Multi-swivel |
Spring balanced | API 16C
compliant

Bottom Loading Arms

Vapor recovery compatible |
Dry-break couplers |
Reduced Emissions

LPG Loading Arms

Cryogenic service | Emer-
gency release | -40°C to
+80°C

Radar Tank Gauging

FMCW 26GHz | 75m range | ±1mm
accuracy | OIML R85 custodytransfer
| EtherCAT | Profinet | HART

Servo Tank Gauging

Multi-function displacer Level +
Temp + Density + Water | ±0.7mm
accuracy | HART | 2-wire/4-wire |
Custody transfer certified



Earth Relay Units

1-20 channels | <10Ω trip | Fail-safe relay
outputs

Smart Earth Relay

Digital display | Status indication |
Capacitance Based Container Detection

Static Discharge Units

Personnel grounding | Pre-loading safety
check

FIBC Earthing Systems

Powder Transfer | Type C bag grounding

ENGINEERED FOR **YOUR** OPERATIONS.

Process Automation

Field Instrumentation | Safety Barriers | Signal Conditioning

Factory Automation

Connectors | Sensors | Safety Devices

Terminal Automation

Loading Arms | Tank Gauging | Earth Monitoring

Hazardous Area Solutions

ATEX | IECEx | Zone 0/1/2 Certified Equipment



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