



Hazardous Location Products

Combining safety with quality you can rely on

When you need hazardous location products, IDEC offers the ultimate in safety. Made to stand up to rough environments time and time again, IDEC products are designed to protect people and equipment, providing the optimum in protection and performance even in the harshest conditions. Whether you're looking for an HMI, a PLC or power supply, relays, switches, barriers, or anything in between, IDEC has what you need.

<https://US.IDEC.com/oil-and-gas>



Hazardous Location Products

Programmable Logic Controllers (PLCs)



PLC + HMI



	MicroSmart FC6A All-in-One	MicroSmart FC6A Plus	FL1F SmartRelay	FT1A SmartAXIS	FT1A Touch
Ratings	UL/c-UL: Class I, Division 2 Groups A, B, C, D				
	ANSI/ISA 12.12.01-2010		UL/c-UL: Class I, Zone 2 Ex nC IIC ANSI/ISA 12.12.01-2007 CE, FM, Lloyd's Registered	ANSI/ISA 12.12.01-2013 CE, Lloyd's Register, ABS	IP66f CE Type 4X (indoor), & 13
Features	<ul style="list-style-type: none"> Embedded Ethernet port Embedded SD memory port Modbus TCP and RTU Embedded RS232C/RS485 user selectable Maximum 520 digital I/O Maximum 126 analog I/O Data Logging Web Server Functions -25 to 65°C operating temp SAE J1939 CPU 	<ul style="list-style-type: none"> EtherNet/IP MQTT Modbus TCP and RTU WindEDIT App for iOS and Android Bluetooth communication Embedded SD port Data Logging Email and Web Server Functions FTP Communications -25 to 65°C Operating Temperature Class I Div 2 3-Year Warranty 	<ul style="list-style-type: none"> Embedded Ethernet Port Web Server Function Access using iOS and Android Apps Micro SD Memory slot Built-in Real Time Clock 10A Relay Outputs Optional Text Message Display panel Function block or Ladder programming Universal voltage – 12-24V DC, 24V AC/DC, 100-240V AC/DC -20 to 55°C operating temp 	<ul style="list-style-type: none"> Embedded RJ45 Ethernet Port Modbus TCP and RTU Embedded smart LCD/keypad Built-in 2-8 analog inputs 10A Relay Contacts Built-in Real Time Clock USB Maintenance Port SD Memory for data logging 100KHZ HSC and Outputs 	<ul style="list-style-type: none"> 3.8" HMI+PLC Models with 12 or 14 I/O Embedded RJ45 Ethernet Port Modbus TCP or RTU Built-in 2 analog inputs Built-in 2 analog outputs Optional Analog Cartridges PID Controls USB Maintenance Port Seamless interface with other PLCs -20 to 55°C operating temp
		FC6A.IDEC.com		SmartRelay.IDEC.com	FT1A.IDEC.com

Power Supplies



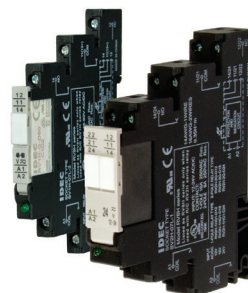
	PS6R	PS5R-V
Ratings	UL/c-UL: Class I and II, Division 2 and Class III, ANSI/ISA 12.12.01-2013 ABS and GL Marine certifications	UL/c-UL: Class I, Division 2 Groups A, B, C, D ANSI/ISA 12.12.01 CAN/CSA C22.2 No. 213-M1987
Features	<ul style="list-style-type: none"> Plug-in output modules for additional output voltages Plug-in branch terminal module for additional terminals Power Range: 120W, 240W, 480W Input voltage: 100 to 240V AC (voltage range: 85 to 264V AC/110 to 350V DC) Power Factor Correction (EN61000-3-2) 	<ul style="list-style-type: none"> Compact size, slim width Output power range: 10W-120W Universal input: 85-265V AC/100-370V DC Flexible mounting, can be installed in 6 directions 5-year Warranty
	PowerSupply.IDEC.com	

Ethernet Switch



	SX5E
Ratings	UL/c-UL: Class I, Division 2, Groups A, B, C, D
Features	<ul style="list-style-type: none"> Compact Unmanaged industrial Ethernet Switch 8-port and 5-port 10/100 Mbps QoS and IGMP Snooping Functions (8 port only) -40 to 75°C operating temp Broadcast Storm Protection Redundant Power inputs

6mm & 14mm Interface Relays



	RV8H
Ratings	UL/c-UL: Class I, Division 2, Groups A, B, C, D, T4A Class I, Zone 2 AEx nA nC IIC T4 Class I, Zone 2 Ex nA nC IIC T4 X Gc CE
Features	<ul style="list-style-type: none"> Hazardous location relay for interface applications Works well in conjunction with PLC and other output devices Space-saving 6mm or 14mm width Screw or spring-clamp terminations Gold-plated contacts Pre-assembled relay and DIN mount socket

www.IDEC.com/relays

HMIs



	Enhanced High Performance Series	HG2G Enhanced Series	Basic Series
	5.7" HG2G-V5, 8.4" HG3G-V8, and 10.4" HG3G-VA, 12.1" HG4G-VC, 15" HG5G-VF	5.7" HG2G	4.3" HG1G
Ratings	UL/c-UL: Class I, Division 2 Groups A, B, C, D ANSI/ISA 12.12.01 IP66F/IP67F, UL61010-1, UL61010-2-201 Type 4X, 12, and 13 Ship Classification Standards: ABS, LR, NK, DNV GL	UL/c-UL: Class I, Division 2 Groups A, B, C, D ANSI/ISA 12.12.01 IP66F, UL508 Type 4X and 13	UL/c-UL: Class I, Division 2 Groups A, B, C, D ANSI/ISA 12.12.01 IP66F/IP67F, UL508 Type 4X and 13
Features	<ul style="list-style-type: none"> • Super Bright: Up to 800cd/m² • Display Resolution: Up to 1024 x 768 pixels • Wide Operating Temperature Range: -20°C to +60°C • Backlight Lifespan: 100,000 hours minimum • Supports FTP, Email, Web Server • Supports up to 4 protocols simultaneously • WindEDIT Mobile App for iOS and Android devices • Video & Audio Interface on select units • Supports analog and digital I/O expansion modules • 3 Years Warranty 	<ul style="list-style-type: none"> • 65K colors with 500cd/m² • 16 shades with 1100 cd/m² • Display Resolution: 320 x 240 pixels • Wide Operating Temperatures Range: -20°C to +60°C • Backlight Lifespan: 100,000 hours minimum • Rated Power Voltage: 12-24V DC • Supports FTP, Email, and Web Server • Supports up to 4 protocols simultaneously • WindEDIT Mobile App for iOS and Android devices • 3 Years Warranty 	<ul style="list-style-type: none"> • 65K Color TFT LCD with 800 cd/m² • Display Resolution: 480 X 272 pixels • Wide Operating Temperature Range: -20°C to 55°C • Backlight Lifespan: 75,000 hours minimum • Rated Power Voltage: 12-24V DC • Supports FTP, Email, and Web Server • Supports up to 4 protocols simultaneously • WindEDIT Mobile App for iOS and Android devices

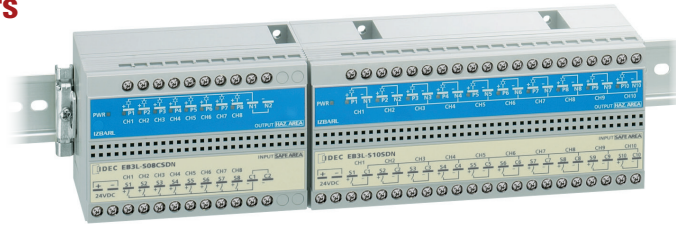
HMI.IDEC.com

30mm Pushbuttons, Pilot Lights, Selector Switches



	EU2B Pushbuttons	EU2B Emergency Stop	EU2B Selector and Key Selector Switches	
Ratings		UL: Class I, Zone 1, AEx de IIC T6 Gb Class I, Div 2, Groups A, B, C and D c-UL: Class I, Zone 1, Ex de IIC T6 Gb Class I, Div 2, Groups A, B, C and D IECEX, ATEX: II2G Ex de IIC II2D tD A21 IP65		
Features	<ul style="list-style-type: none"> • Flush, extended and mushroom • Contact configuration: 1NO, 1NC, 1NO-1NC, • Up to three contact blocks can be mounted • Exposed or finger-safe (IP20) screw terminals • Type 4X 	<ul style="list-style-type: none"> • Push-pull or twist release • Positive action contacts • Red mushroom head, yellow body • Exposed or finger-safe (IP20) screw terminals • Type 4X 	<ul style="list-style-type: none"> • 2- and 3-position selectors with maintained and spring return models • Contact configurations: 1NO, 1NC, 1NO-1NC, • Up to three contact blocks can be mounted • Various circuit configurations available • Exposed or finger-safe (IP20) screw terminals 	
	EU2B Pilot Lights	EU2B Meters		
Ratings	UL: Class I, Zone 1, AEx de IIC T6 Gb Class I, Div 2, Groups A, B, C and D c-UL: Class I, Zone 1, Ex de IIB T6 Gb Class I, Div 2, Groups C and D ATEX: II2G Ex de IIC II2D tD A21 IP65	UL: Class I, Zone 1, AEx de IIC T6 Gb Class I, Div 2, Groups A, B, C and D c-UL: Class I, Zone 1, Ex de IIC T6 Gb Class I, Div 2, Groups A, B, C and D ATEX: II2G Ex de IIC Gb II2D Ex tb IIIC Db IP65		
Features	<ul style="list-style-type: none"> • Input voltage: 100/110V AC, 200/220V AC, 24V AC/DC, other voltages available • Various illumination colors – amber, green, white, red, yellow and blue • Exposed or finger-safe (IP20) screw terminals 	<ul style="list-style-type: none"> • AC Ammeter • DC Ammeter or Voltmeter • Exposed or finger-safe (IP20) screw terminals • Type 4X 		

Intrinsically Safe Barriers



	EB3C Relay Barriers	EB3N Safety Barriers	EB3L Lamp Barriers
Ratings		UL: Class I, II, III, Division 1 Groups A, B, C, D, E, F, G c-UL: Class I, Zone 0 [AExia] II C UL913, UL60079-0, UL60079-11, UL61010-1 FM, ATEX, IECEx	
Features	<ul style="list-style-type: none"> • Dry-contact switches can be connected • 8- and 16-circuit types are available in common wiring types • 1 to 16 channels • Three different output types available; electromechanical, logic, and transistor. 	<ul style="list-style-type: none"> • Ensures protection and machine safety in explosive atmosphere • Machine safety system can be built in compliance with ISO13849-1 Cat. 4, Performance level e • Safety input devices applicable in any explosive gas and hazardous areas available 	<ul style="list-style-type: none"> • Compact and lightweight • 8- and 16-channel types are available in common wiring types • 1 to 16 channels • No grounding required

www.IDEC.com/barriers

LED Flood Lamps



	EF1A
Ratings	UL/c-UL, ATEX, IECEx Class I, Zone 1 AEx d IIB T4 Gb IEC60079-0:Ed 6 (2011), IEC60079-1:Ed 6 (2007), IEC60079-31: Ed 1 (2008) EN60079-0 2012, EN60079-1 2007, EN60079-31 2009 ANSI/UL 60079-0:Ed. 5 (2009), ANSI/UL 60079-1. Ed.6 (2009) CSA C22.2 60079-0:2011, CSA C22.2 60079-1:2011
Features	<ul style="list-style-type: none"> • Lens choice: clear or opaque • Choice of narrow or wide beam • Available with adjustable, fixed angle or no mounting bracket • Degree of Protection IP67 / Type 4X (without ON/OFF switch) IP65 / Type 3S (with ON/OFF switch)

www.IDEC.com/usa/led



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