



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.

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Hazardous Location Products

Programmable Logic Controllers (PLCs)



PLC + HMI



	FC5A Pentra	FL1E SmartRelay	FT1A SmartAXIS	FT1A Touch
Ratings	ANSI/ISA 12.12.01-2010	UL/c-UL: Class I, Zone 2 Ex nC IIC ANSI/ISA 12.12.01-2007 CE, FM, Lloyds Registered, ABS	UL/c-UL: Class I, Division 2 Groups A, B, C, D, ANSI/ISA 12.12.01-2013 CE, Lloyd's Register, ABS	IP66f CE Nema 4X (indoor), & 13
Features	<ul style="list-style-type: none"> Embedded Ethernet CPU Modbus TCP, RTU and ASCII 1MB user web page Email and text notifications Maximum 512 I/Os Available in brick (10, 16, 24 I/O) and slim (12, 16, 32 I/O) CPU 	<ul style="list-style-type: none"> Optional Text Message Display panel 4 built-in 0-10V analog inputs 4 built-in 5KHz high-speed inputs 10A relay outputs Built-in real time clock Bright, high contrast, and controllable backlit LCD Universal voltage – 12-24V DC, 24V AC/DC, 100-240V AC/DC USB programming cable 	<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 Universal voltage – 12-24 VDC, 24 VAC/DC, 100-240 VAC/DC 	<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.

www.IDEC.com/plc

www.IDEC.com/touch

Power Supplies



	PS6R	PS5R-S
Ratings	UL/c-UL: Class I and II, Division 2 and Class III, Divisions 1 and 2 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 12.12.01-2007
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"> Lightweight and compact in size Wide power range: 10W-240W Universal input: 10W to 90W: 85-264V AC/100-370V DC 120W and 240W: 85-264V AC/100-350V DC Power Factor Correction for 60W to 240W (EN61000-3-2)

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6mm 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 width Screw or spring-clamp terminations Gold-plated contacts Pre-assembled relay and DIN mount socket

www.IDEC.com/relays

HMIs



	High Performance Series	Basic Series		
	5.7" HG2G-5FT, 8.4" and 10.4" HG3G, 12.1" HG4G	5.7" HG2G-5ST	5.7" HG2G-SB	4.6" HG1F
Ratings	UL/c-UL: Class I, Division 2 Groups A, B, C, D ANSI/ISA 12.12.01 IP66, UL508, ABS, LR, NK, DNV Type 4X & 13	UL/c-UL: Class I, Division 2 Groups A, B, C, D ANSI/ISA 12.12.01 IP66, UL508 Type 4X & 13	IP66, UL508 Type 13	IP65, UL508 Type 13
Features	<ul style="list-style-type: none"> • 65,536 color TFT LCD • Mounts portrait or landscape • Video and audio interface (select units) • Super bright: up to 800cd/m² • Supports expansion discrete I/O modules • Remote access, monitor and control • Serial, Ethernet, and USB port 	<ul style="list-style-type: none"> • 256 Color TFT • Operating Voltage: 12-24V DC • Brightness: 400cd/m² • USB mini B port • Built-in Ethernet Port (optional) • 1-(RS232, RS485, RS422) 	<ul style="list-style-type: none"> • 15 level monochrome • Operating voltage: 12 or 24V DC • Brightness: 500cd/m² • Built-in Ethernet port (optional) • 1-(RS232, RS485, RS422) 	<ul style="list-style-type: none"> • 16 level monochrome • Operating voltage: 24V DC • Brightness: 500cd/m² • High resolution: 300 x 100 pixels • Screen orientation: landscape or portrait • RS232 or RS422/RS485 Version

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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 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 	<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 	<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 	

www.IDEC.com/EU2B

Intrinsically Safe Barriers



	EB3C	EB3N	EB3L
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	
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 explosion 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

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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