PS5R Slim Line Power Supplies
IDEC PS5R Slim Line power supplies have all the features, all the power, and only half the size of traditional power supplies. Save valuable DIN Rail space with the 30W, 60W, 90W, 120W, or 240W models which can fit any of your power needs. The PS5R Slim Line models are UL508 and UL1604 listed for hazardous locations. The 30W and 60W models are also NEC Class 2 rated. The 120W and 240W models comply with SEMI F47 suj immunity requirements.

SA1E Sensors
Choose your sensing method, operation mode, control output and connection method with the simple and affordable SA1E sensors, and get exactly what you need in a very small package. There are 32 models available, all rated IP67 for water resistance, with a response time of 1 ms (maximum). Special interference prevention allows close mounting of two sensors (except for through-beam type), and the quick connect and disconnect option make installation a breeze.

HW Switches
In basic black or stylish metal, the HW series of 22mm switches from IDEC are available in several styles to dress up any panel. HW pushbuttons and pilot devices are internationally-rated, designed for use almost anywhere in the world, and have removable contact blocks, finger-safe terminals, and tamperproof construction. Choose simple black plastic bezels for clean uniformity or chrome-plated metallic bezels for a rugged industrial look.
Look around you. IDEC SmartRelays are everywhere! You can find them in lighting controls, ice-making machines, grocery store mist systems and more. And there’s a good reason: IDEC SmartRelays meet all safety requirements, while at the same time saving you time and money.

Now our new fourth-generation SmartRelays include new advanced features that offer even more versatility and functions! With new features including: an analog output module, 3 new function block types, upgraded software and available expansion modules, you can get everything you need from one compact module.

When you need a product you can rely on, is easy to use, and meets safety standards, look no further than IDEC. Our SmartRelays meet all industry standard approvals including cULus, CE, C-Tick and ABS (American Bureau of Shipping). Plus they are FM approved for Class 1 Div 2 hazardous locations. The bottom line is IDEC SmartRelays provide the right solution for all your control needs!

Industrial Facility Systems
  - Conveyor systems
  - Elevator controls
  - Liquid level controls
  - Motor, pump and valve controls
  - Water treatment and irrigation systems

Housing and Building Management
  - Lighting controls
  - HVAC
  - Gate and door controls
  - Shutter and sun blind controls
  - Water and sprinkler systems

Unique Solutions
  - Solar-electric systems
  - Traffic light controls
  - Ventilation systems on ships
  - Extreme environmental conditions

Monitoring Systems
  - Access controls
  - Alarm systems
  - Parking lot control monitoring

Why spend all that time wiring when it’s as simple as 1, 2, 3?

Your logic circuit can be accomplished ... by just installing this unit.

Your time is valuable and with that in mind, IDEC has created a product that will require very little of it. Using a system smaller than a PLC, with minimal wiring, mounting as simple as a quick snap on to a DIN rail, and programming as easy as one touch of a button, the user-friendly SmartRelay is the perfect solution.

Why wait? Replace your complicated system of relays, timers and counters with just one IDEC SmartRelay! It’s safe to say we all want to reduce workloads while saving money, and with IDEC SmartRelays it’s easy. These all-in-one controllers require less space in your control cabinet. And as you know, space in your panel is money in your pocket. Combine that with low maintenance and you’ve got a cost-effective product you can count on for all your control operations!
Smart Control - IDEC SmartRelay

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The possibilities are endless

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Select “Program” from the main menu.

Create your control logic.

Select “Start,” and you’re done.

Your logic circuit can be accomplished... by just installing this unit.
Digital/Analog Inputs
Each SmartRelay is equipped with 8 digital inputs for you to utilize in your applications. On selected models such as FL1D-H12RCE, FL1D-B12RCE and FL1D-H12SND, inputs 5 and 6 can be used as fast inputs up to 2 kHz and inputs 7 and 8 can be configured as 0-10V analog inputs. A maximum of 24 digital inputs can be utilized with this system using digital expansion modules.

Universal Voltages
SmartRelays are available in 12/24VDC, 24VAC/DC, and 100-240VAC/DC voltages.

DIN Rail or Surface Mountable

Backlit LCD Display
System status — input, output, analog values, timers and counters — can be monitored through an embedded 4x12 LCD on your SmartRelay. This allows you to display a predefined message with up to 48 characters chosen from 103 special character types. You can now adjust the contrast on your display screen to your preference. Non-LCD versions are also available.

Digital Outputs
IDEC SmartRelays are equipped with 4 relay outputs rated at 10A/pt. A maximum of 16 outputs can be configured with this system using digital expansion modules.

EEPROM memory
Never worry about your program being lost again! With IDEC SmartRelays, your program is stored in a non-volatile EEPROM.

Password Protection
Concerned about your program being copied or altered? IDEC SmartRelays keep you safe with a unique password protection scheme allowing end users to access certain parameters without seeing or modifying the actual program.

Large Program Capacity
Running out of program space is a thing of the past. IDEC SmartRelays can handle up to 130 function blocks (2000 bytes).

Integrated Functions
8 predefined basic function blocks and 28 special function blocks ensure that almost all your conventional switching devices — timers and counters — can be replaced. Three smart functions include a PI controller (e.g. for temperature control), a two-stage ramp function (e.g. for the control of frequency converters) and an analog multiplexer (e.g. for light control). See page 9.

Quality
IDEC means quality and dependability you can trust and our SmartRelays are no exception. Each model is cULus listed, CE certified, EMC compliant, FM approved for Class 1 Div 2 hazardous locations, C-tick compliant, Lloyd’s Registered, and ABS approved.

Universal Voltages
SmartRelays are available in 12/24VDC, 24VAC/DC, and 100-240VAC/DC voltages.

Expansion Modules
Just snap-on and go! No cable required. Each digital expansion module has 4 inputs and 4 outputs available in 12/24VDC, 24VAC/DC and 100-240VAC/DC. Up to 4 expansion modules can be mounted on an IDEC SmartRelay base module. Plus SmartRelay also has the capability to communicate within a LONWORKS® network and AS-interface system with its LONWORKS® and AS-interface modules.

Analog Inputs & Outputs
Using the 2-pt analog input and 2-pt analog output expansion modules allows you to easily control and process your analog signals. IDEC SmartRelays can control and process 0-10V and 4-20mA signals with a 10-bit resolution. Up to 4 analog input and 1 analog output modules can be attached to the base module.

Multifunction Interface
If you prefer not to program your SmartRelay using the LCD and keypad, simply connect the interface cable to your PC and program with our WinSG software instead. Or you can plug in the special memory cartridge (FL1C-PM3) and have your SmartRelay operate the circuit program through the cartridge itself.

Operational Control Buttons
IDEC SmartRelays can be programmed with just the push of a button! Control buttons can be used to program, modify and change preset parameters. The four cursor keys can also be configured as inputs if needed.
**Control at the push of a button**

**Digital/Analog Inputs**
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IDEC SmartRelays are equipped with 4 relay outputs rated at 10A/pt. A maximum of 16 outputs can be configured with this system using digital expansion modules.

**Universal Voltages**
SmartRelays are available in 12/24DC, 24VAC/DC, and 100-240VAC/DC voltages.

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**www.idec.com/smartrelay**
WindLGC 5.0 Software

WindLGC is the exclusive programming software for the IDEC SmartRelay using Windows®.

**Simplicity**
Create, simulate, test and save your program in just a matter of seconds using drag and drop functions.

**Control**
Choose either function block or ladder programming, but keep in mind that you can always convert from one to the other with just the click of an icon. Offline program simulation (without the need for an actual unit) enables testing of the entire program from a PC, or you can test and monitor your IDEC SmartRelay online.

**Documentation**
You can create and save your WindLGC program as a .pdf or .jpg file. Professional documentation is included with all necessary configuration information such as comments and program settings.

**On the Web**
Visit IDEC at www.idec.com/smartrelay for additional information on software upgrades, demo software, FAQs, manuals or brochures.

---

**Program Comparison**

**Basic Function Blocks**
- OR: Parallel connection of normally open contacts
- NOR: Series connection of normally closed contacts
- AND: Series connection of normally open contacts
- AND (Edge): Edge detection with edge evaluation (pos. edge)
- XOR: Double changeover contact
- NOT: Connection of closed contact

---

**Special Function Blocks**

<table>
<thead>
<tr>
<th>ON Delay</th>
<th>OFF Delay</th>
<th>ON/OFF Delay</th>
<th>Retentive Delay</th>
<th>Interval Time-Delay</th>
<th>Current Impulse Relay</th>
<th>Edge-Triggered Interval Time-Delay Relay</th>
<th>Latching Relay</th>
<th>Seven-Day Time Switch</th>
<th>Twelve-Month Time Switch</th>
<th>Up/Down Counter</th>
<th>Analog Differential Trigger</th>
<th>Analog Value Monitoring</th>
<th>Operating Hours Counter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trg Q</td>
<td>Trg Q</td>
<td>Trg Q</td>
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---

**Simulation Mode/Online Monitor**

**Ladder Programming**

---

**Loaded with functions!**
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Create, simulate, test and save your program in just a matter of seconds using drag and drop functions.

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Program Comparison

Basic Function Blocks

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<tr>
<th>Block Type</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>OR</td>
<td>Parallel connection of normally open contacts</td>
</tr>
<tr>
<td>NOR</td>
<td>NOR connection of normally closed contacts</td>
</tr>
<tr>
<td>NAND</td>
<td>NAND parallel connection of normally closed contacts</td>
</tr>
<tr>
<td>NAND (Edge)</td>
<td>NAND (Edge) connection of normally closed contacts with edge evaluation</td>
</tr>
<tr>
<td>AND</td>
<td>Series connection of normally open contacts</td>
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<tr>
<td>AND (Edge)</td>
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<td>XOR Double changeover contact</td>
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<td>NOT</td>
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</table>

Simulation Mode/Online Monitor

Ladder Programming

Loaded with functions!
Modules that expand the possibilities

I/O Expansion Modules

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Module</th>
<th>Input Power</th>
<th>Input Type</th>
<th>Output Type</th>
<th>Total I/O</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL1B-M88R2</td>
<td>Combination I/O</td>
<td>12/24V DC</td>
<td>DC input</td>
<td>Relay output</td>
<td>8 (4 in/4 Out)</td>
</tr>
<tr>
<td>FL1B-M88S2</td>
<td></td>
<td>24V DC</td>
<td>DC input</td>
<td>Relay output</td>
<td>8 (4 in/4 Out)</td>
</tr>
<tr>
<td>FL1B-M88F2</td>
<td></td>
<td>100-240V AC/DC</td>
<td>AC/DC input</td>
<td>Relay output</td>
<td>8 (4 in/4 Out)</td>
</tr>
<tr>
<td>FL1B-J8B2</td>
<td>Analog Input Module</td>
<td>12/24V DC</td>
<td>0-10V, 4-20mA</td>
<td>100-240V AC/DC</td>
<td>2 (4 in/2 Out)</td>
</tr>
<tr>
<td>FL1D-J8B2</td>
<td>Analog Output Module</td>
<td>24V DC</td>
<td>—</td>
<td>—</td>
<td>2 (1 in/2 Out)</td>
</tr>
</tbody>
</table>

LowWOWs® Communication Module

- LowWOWs® Communication module contains standard network variable type (SNVT) to achieve open network communication for building automation.
- Maximum virtual input/output points: 16/12 points
- An external interface file (IFX extension) unique to each LowWOWs® module is needed to communicate through the LowWOWs® network and can be downloaded at www.idec.com/smartrelay
- See page 11 for more details

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Module</th>
<th>Input Power</th>
<th>Total I/O</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL1B-CL1C12</td>
<td>LowWOWs® Communication Module</td>
<td>24V AC/DC</td>
<td>Analog input, 8 points</td>
</tr>
</tbody>
</table>

AS-Interface Communication Module

- The AS-Interface communication module provides optimum solutions for decentralized controls and savings in installation space and wiring.
- Virtual I/O points: 4 input, 4 outputs
- See page 11 for more details

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Module</th>
<th>Input Power</th>
<th>Total I/O</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL1B-CAS2</td>
<td>AS-Interface Communication Module</td>
<td>30V DC</td>
<td>Input: 4 points</td>
</tr>
</tbody>
</table>

Special Function Blocks (Cont.)

<table>
<thead>
<tr>
<th>Asynchronous Pulse Generator</th>
<th>Random Generator</th>
<th>Frequency Trigger</th>
<th>Analog Trigger</th>
<th>Analog Comparator</th>
<th>Stairwell Light Switch</th>
<th>Dual-Function Switch</th>
<th>Message Text</th>
<th>Softkey</th>
<th>Analog Amplifier</th>
<th>Shift Register</th>
<th>PI Controller</th>
<th>Analog Ramp Control</th>
<th>Analog Multiplexer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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Modules that expand the possibilities

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<tr>
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<th>Input Type</th>
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<tr>
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<td>AS-Interface Communication Module</td>
<td>30V DC</td>
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<td>Output: 4 points</td>
<td>8 points</td>
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</tbody>
</table>

LowWorks® Communication Module
- LowWorks® Communication module contains standard network variable type (SNVT) to achieve open networking communication for building automation.
- Maximum virtual input/output/micropoints: 16/12 points
- An external interface file (DIF format) unique to each LowWorks® module is needed to communicate through the LowWorks® network and can be downloaded at www.idec.com/smartrelay
- See page 11 for more details

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Module</th>
<th>Input Power</th>
<th>Input Type</th>
<th>Total I/O</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL1B-CL112</td>
<td>LowWorks® Communication Module</td>
<td>24V AC/DC</td>
<td>Analog Input: 8 points</td>
<td>Output: 12 points</td>
</tr>
</tbody>
</table>

**New**

AS-Interface Communication Module
- The AS-Interface communication module provides optimum solutions for decentralized controls and savings in installation space and wiring.
- Virtual I/O points: 4 inputs, 4 outputs
- See page 11 for more details

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Module</th>
<th>Input Power</th>
<th>Input Type</th>
<th>Total I/O</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL1B-CA02</td>
<td>AS-Interface Communication Module</td>
<td>30V DC</td>
<td>Input: 4 points</td>
<td>Output: 4 points</td>
</tr>
</tbody>
</table>

**New**

**New**

**New**

Special Function Blocks (Cont.)

<table>
<thead>
<tr>
<th>Block Type</th>
<th>Part Number</th>
<th>Input Power</th>
<th>Input Type</th>
<th>Output Type</th>
<th>Total I/O</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asynchronous Pulse Generator</td>
<td>FL1D-H10RCE</td>
<td>12/24V DC</td>
<td>DC</td>
<td>Relay Output</td>
<td>Yes</td>
</tr>
<tr>
<td>Random Generator</td>
<td>FL1D-H10RDE</td>
<td>24V DC</td>
<td>Relay Output</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Frequency Trigger</td>
<td>FL1D-H10RCA</td>
<td>24V AC/DC</td>
<td>Relay Output</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Analog Trigger</td>
<td>FL1D-H10RCC</td>
<td>100-240V AC/DC</td>
<td>Relay Output</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

**New**

**New**

**New**

**New**

**New**

**New**

www.idec.com/smartrelay
**Starter Kit**

*IDEC SmartRelay Starter Kit is an economical and ideal solution for first-time IDEC SmartRelay users*

- Package includes a base module, WindLGC programming software, programming cable, simulator switch (DC models only), and a user’s manual.

### Part Number Description

<table>
<thead>
<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMARTSTART-BAD-D</td>
<td>FL1D-B12RCC, WindLGC software and programming cable</td>
</tr>
<tr>
<td>SMARTSTART-BBD-D</td>
<td>FL1D-B12RCE, WindLGC software, programming cable, and simulator switch</td>
</tr>
<tr>
<td>SMARTSTART-CAD-D</td>
<td>FL1D-C12RCC, WindLGC software and programming cable</td>
</tr>
<tr>
<td>SMARTSTART-CBD-D</td>
<td>FL1D-C12RCE, WindLGC software, programming cable, and simulator switch</td>
</tr>
<tr>
<td>SMARTSTART-DAD-D</td>
<td>FL1D-D12RCC, WindLGC software and programming cable</td>
</tr>
<tr>
<td>SMARTSTART-DBD-D</td>
<td>FL1D-D12RCE, WindLGC software, programming cable, and simulator switch</td>
</tr>
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### Accessories

- Memory Cartridge
  - FL1C-PM3
- Programming Software
  - WindLGC Ver. 5CD with Online Manual
- Programming Cable
  - FL1A-PC1
- Simulator Switch
  - FL1B-Y1371-SW8
- End Stop Switches
  - FL1B-ES-SW8
- Memory Cartridge Removal Tool
  - FL1B-PS-P1
- User’s Manual
  - FL1B-U1371-SW8
- USB to RS232 Converter
  - FC4A-USB

### Base Module Dimensions

- Digital Input: I 123456789
- Analog Input: AI 1234
- Digital Output: Q 1234

### I/O Expansion Module Dimensions

- Digital Input: I 123456789
- Analog Input: AI 1234
- Digital Output: Q 1234

### Module Combination and Allocation Numbers

#### I/O Expansion Module

- FL1B-H12RCC FL1B-H12RCE FL1B-H12RCC
- FL1B-H12RCE FL1B-H12RCC FL1B-H12RCE
- FL1B-H12RCC FL1B-H12RCE FL1B-H12RCC

**Note:**

1. Maximum number of I/O points when using LonWorks communication module.
2. Using analog inputs on the base module.

> WindLGC 5.0 Software FL1Y-LP12GW

User’s Manual FL1Y-UM12GW

Memory Cartridge FL1C-PM3

Simulator Switch FL1B-Y1371-SW8

Programming Cable FL1A-PC1

Base Module Dimensions

All dimensions in mm. Detailed CAD drawings are available on our website at: www.idec.com/smartrelay.
The AS-Interface communication module provides the optimum solution for savings in cables, installation space, and wiring costs, and offers the possibility of decentralized control.

**Starter Kit**

IDEC SmartRelay Starter Kit is an economical and ideal solution for first time IDEC SmartRelay users.

- Package includes a base module, WindLGC programming software, programming cable, simulator switch (DC models only), and a user’s manual.

**Table: Module Combination and Allocation Numbers**

<table>
<thead>
<tr>
<th>Base Module</th>
<th>I/O Expansion Module</th>
<th>LONWORKS Communication Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL1D-H12RCC</td>
<td>FL1B-CL1C12</td>
<td>FL1B-J2B2</td>
</tr>
<tr>
<td>FL1D-H12RCE</td>
<td>FL1B-CL1C12</td>
<td>FL1B-J2B2</td>
</tr>
<tr>
<td>FL1D-H12RCE</td>
<td>FL1B-CL1C12</td>
<td>FL1B-J2B2</td>
</tr>
</tbody>
</table>

**Note:**

1. Maximum number of I/O points when using LONWORKS communication module
2. Using analog inputs on the base module
3. Using I/O expansion module

**Module Combination and Allocation Numbers**

<table>
<thead>
<tr>
<th>Base module</th>
<th>LONWORKS Communication module</th>
<th>Analog input module</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL1D-H12RCC</td>
<td>FL1B-CL1C12</td>
<td></td>
</tr>
<tr>
<td>FL1D-H12RCE</td>
<td>FL1B-CL1C12</td>
<td></td>
</tr>
<tr>
<td>FL1D-H12RCE</td>
<td>FL1B-CL1C12</td>
<td></td>
</tr>
</tbody>
</table>

**Base Module Dimensions**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>90 mm</td>
</tr>
<tr>
<td>Height</td>
<td>60 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>12 mm</td>
</tr>
</tbody>
</table>

**I/O Expansion Module Dimensions**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>24.5 cm</td>
</tr>
<tr>
<td>Height</td>
<td>34.5 cm</td>
</tr>
<tr>
<td>Depth</td>
<td>54 cm</td>
</tr>
</tbody>
</table>

All dimensions in mm. Detailed CAD drawings are available on our website at: www.idec.com/smartrelay.
PS5R Slim Line Power Supplies

IDEC PS5R Slim Line power supplies have all the features, all the power, and only half the size of traditional power supplies. Save valuable DIN Rail space with the 20W, 60W, 90W, 120W, or 240W models which can fit any of your power needs. The PS5R Slim Line models are UL508 and UL1604 listed for hazardous locations. The 30W and 60W models are also NEC Class 2 rated. The 120W and 240W models comply with SEMI F47 suj immunity requirements.

SA1E Sensors

Choose your sensing method, operation mode, control output and connection method with the simple and affordable SA1E sensors, and get exactly what you need in a very small package. There are 32 models available, all rated IP67 for water resistance, with a response time of 1 msec (maximum). Special interference prevention allows close mounting of two sensors (except for through-beam type), and the quick connect and disconnect option make installation a breeze.

HW Switches

In basic black or stylish metal, the HW series of 22mm switches from IDEC are available in several styles to dress up any panel. HW pushbuttons and pilot devices are internationally-rated, designed for use almost anywhere in the world, and have removable contact blocks, finger-safe terminals, and tamperproof construction. Choose simple black plastic bezels for clean uniformity or chrome-plated metallic bezels for a rugged industrial look.

Support Information

IDEC SmartRelay
www.idec.com/smartrelay

Technical support:
support@idec.com

800-262-IDEC
www.idec.com
Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

IDEC:
FL9Y-LP1CDW