

Screw-Less Clamp solutions

# SOCKETS • TIMERS

for faster, more reliable wiring



Advanced Industrial Automation

**OMRON**

Screw-Less Clamp (SLC) technology offers an effective, time-saving, no-compromise wiring solution in industrial environments.

The technology drastically reduces wiring time, eliminates routine maintenance and provides a very reliable connection. And Omron is the first manufacturer to use this SLC technology in standard sockets for a whole range of industrial products!



# The first Omron sockets and timers to use SLC technology!

With these Screw-Less Clamps there are no screws to be tightened during initial wiring, so there's no over- or under-tightening of cable connections, and no damaged threads because the terminal was screwed too tightly. Routine tasks such as repeatedly tightening sockets during regular inspection are eliminated. Once the clamp secures the wire, it stays secured – always! And the risk of wiring becoming loose through shock or vibration is also eliminated.





The following table shows some of the products that are compatible with Omron's Screw-Less Clamp terminal sockets.

		PYF08S	PYF14S	P2RF-05_S	P2RF-08_S
EMR		MY2-DPDT	MY4-4PDT	G2R-SPDT	G2R-DPDT
SSR		G3F		G3R	
Electronic timers		H3YN-DPDT	H3YN-4PDT	H3RN-SPDT	H3RN DPST-NO
Level controllers					K7L

## SLC sockets for fast, safe mounting

### PYF / P2RF series

The PYF-14S Screw-Less Clamp terminal socket is intended for use with a range of products that include Omron's 4-pole MY industrial relay, while the PYF08S is for use with the 2-pole MY relay and G3F Solid State Relay. The P2RF-S is designed specially for Omron's G2R series of relays, as well as the H3RN Electronic Timer. The 8-pin (two-pole) version is also suitable for use with the K7L Liquid Leakage Sensor Amplifier, while the 5-pin (one-pole) version is ideal for use with Omron's G3R Solid State Relay. Both the PYF-14S and PYF08S can be used with the H3YN-DPDT timer.

Each features a socket with a unique wiring mechanism that drastically reduces wiring time. Each socket conforms to all relevant global standards. And each socket has a unique instant release lever which, when pulled, pops out the mounted product for safe, easy replacement.

### Features at a glance!

*Benefits to you:*

- **Screw-less terminal sockets**
  - Drastically reduces wiring time
- **Unique release lever**
  - Ensures easy product replacement, and without damage to its terminals
- **Each terminal connection has two clamps**
  - Different gauge wires can be connected to the same terminal
- **Accepts different gauge cables**
  - Solid or stranded wires, from 0.2 to 1.5 mm<sup>2</sup> (AWG24 to AWG16)
- **Standard DIN-rail connection**
  - For faster, easier panel building
- **Safe terminal arrangement**
  - Coil terminals separated from contact terminals
- **Environmentally friendly**
  - No Pb, Cd or Be used
- **Two types of name-plate available**
  - For easy component labelling





H3DS-ALC  
ON-delay



H3DS-FLC  
Independent ON/OFF



H3DS-GLC  
Star-delta timer



H3DS-MLC  
Multi-functional



H3DS-SLC  
Multi-functional  
power ON



H3DS-X  
Two-wired  
ON-delay

## Easy-to-wire timers

### H3DS series

Omron has a full range of solid state timers that uses SLC technology to ensure faster, easier and more reliable wiring. Each H3DS model is just 17.5 mm wide, enabling it to fit into standard, modular 45 mm panels. Developed specifically for switch-cabinet installations, these timers can be mounted directly onto DIN rails, and meet all relevant global standards.

### Protecting your settings

Each compact timer features an ingenious locking mechanism that prevents accidental or unauthorised adjustment of the settings that could endanger your production process. Using a unique pen-like key you can operate this locking mechanism with a single twist. Time settings, time ranges and the timer function are all locked separately, allowing you to adjust specific settings without accidentally changing others.

## Features at a glance!

### Benefits to you:

- **All standard voltages covered**
  - The right version always available
- **Multi-time range flexibility**
  - Accurate settings; covers all your required timing ranges
- **Complete range of SLC timers**
  - All timer functions covered
- **Large switching capacity**
  - Covers all main industrial applications
- **Main terminals with double wiring possibility**
  - Different gauge wiring can be connected to the same terminal
- **Unique locking function**
  - Prevents unauthorised changes
- **Complies to DIN 43880 norms**
  - Space saving, fits in modular 45 mm housing



# How Omron's SLC technology works!



## Unique 1-2-3 step wiring process!

The SLC's terminal has a unique mechanism that uses no screws, so there's no time wasted tightening screws during wiring. Just three steps are required:

1. Insert the screwdriver. This presses the springs together and the opening is pushed upwards.
2. Insert the wire (any wire with a cross-section of 0.2 to 1.5 mm<sup>2</sup> can be inserted).
3. Withdraw the screwdriver. The springs tension and the opening moves downward, tightly clamping the wire.

This procedure takes less than half the conventional wiring time, and is much more reliable!



## Double wiring

Each connection has two clamps, and each clamp can handle wires of the same or different gauges.



## Connected for life!

Because a clamp is used to secure the wiring, the connection is always reliable, even in machines that are subject to continuous vibration. This also eliminates the need for periodical maintenance.

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