

# Newsletter January 2016

## Happy New Year 2016

For this 1st newsletter of the year we are pleased to remind you our main developments in 2015 :



### UL SCCR approval

For UL508A standard SCCR means Short Circuit Current Rating.

From the 1st of April 2015 our power Solid State Relays have passed with success the **100kA UL SCCR** test.

In fact some customers require  $SCCR > 5KA$  with reference to UL508 sup SB standard.



### Solid State Relays with Low Electromagnetic Noise Emission

celduc® relais has just launched last December a new range of EMC optimized Solid State Relays (with low electromagnetic emission – low RFI) : « **SON** » range.

These relays are particularly suitable for applications where electromagnetic noise must be limited (household and electrical appliances, information technology and medical equipment).



You can find standard « low noise » SSR on the market but those are limited to low switching current of 5A for domestic applications or to low inductive loads, while lots of pure resistive loads applications have high emission noise.

Our new EMC optimized SON range meets these requirements (Conducted emission noise level  $< 66dB\mu V$ ) and can control class B appliances on pure resistive loads.

Part Nr : [SON865040](#) (50-500VAC - 50A - Ctrl 5-32VDC)  
Current limits : 40A @ 220V / 27A @ 400V

## IGBT based DC SSR -SDI0501700-

**At celduc®relais, DC power switching under control !**

In 2015 we have introduced our new IGBT based **SDI0501700** SSR which can switch 50 A @ 750 VDC nominal in a fast, reliable and safe way.

In every situation, safety operation is preserved :

-Built-in over-voltage protection for inductive DC supply lines,

-Built-in load short circuit protection : by detection of IGBT saturation, short circuits on the load will block the unit, keeping it safe,

-Built-in over load temperature protection : over-heating should occur, the unit will automatically switch off.



The SDI SSR is definitely designed for the most demanding DC power switching applications, the unit that the railway companies, on rolling stock or infrastructure, have expected for years !

[Technical data-sheet](#)

## -New leaflets- celduc's solutions in the food industry

celduc® Solid State Relays (SSRs) are widely used in the food equipment industry as replacement of electromechanical relays because of their ability to work in harsh environments. Since there are no moving parts contact wear is eliminated and their semiconductor based design makes them environmentally safe to be used in most applications including : ovens, fryers, heaters broilers, food warmers and holding equipment, and coffee machines.

**SSR in cooking steam ovens & combi ovens**

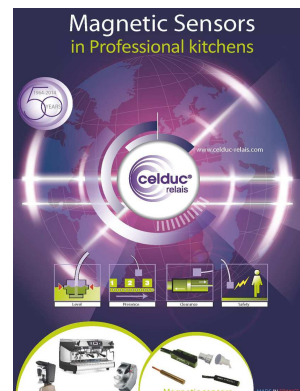
**SSR in espresso & automatic coffee machines**

**Magnetic Proximity Sensors in professional kitchens**

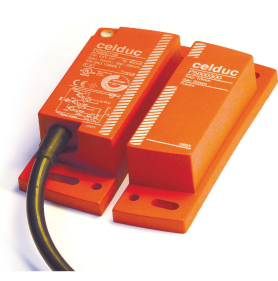
[Leaflet](#)

[Leaflet](#)

[Leaflet](#)



## P3S and P4S range Autonomous safety sensors with coded magnetic technology & safety module integrated !



### For an appropriate safety !

With these new products, celduc relais completes its range of safety sensors now made of 2 product lines :

- PSS/PXS range which should be connected to suitable safety module,
- P3S/P4S range with safety module integrated.

These products are designed for monitoring the doors, covers and guards of industrial machines with imprecise guiding and low inertia. They protect the operator by immediately stopping any dangerous movement as soon as the distance between the switch and its magnet is greater than 5 or 8mm.

### Benefits of our new P3S/P4S range:

- Easy to integrate inside the cabinets,
- Entirely electronic with high coding level (inviolability),
- High resistance to shocks and vibrations,
- Self-protected static outputs (short-circuit of the load and temperature).
- Virtually unlimited life time (very high MTTFd).

### Main technical characteristics:

- Cable outputs (standard 2, 5 or 10 meters) or M12 connectors with high resistance to external attacks (cutting oils, ...),
- Protection level : Very solid IP67 plastic housing and high-pressure washing resistance (IP69K),
- Safety level : Standard EN 13849-1 Performance level PL:e (EN 954-1) Category 3 and 4. Standard EN 62061 (in accordance IEC 61508) SIL3

**-P3S version** with redundancy and internal monitoring for using in category 3 according EN 13849-1. It is possible to connect up to 32 sensors in series.

**-P4S version** with redundancy, internal and external monitoring of external contactors with EDM (External Devices Monitoring) feedback loop for using in category 4 according EN 13849-1. Status output informing any defect of the system.

### Main applications:

-For our P3S and P4S range  
Industrial machines with gates having imprecise guidance and or subject to frequent washing, packaging machines, food processing machines, machines for the production of micro-components.

-For our PSS and PXS range  
Light industrial machines, handling, textile machines, robotics, machines tools.

[Technical data-sheet P3S - P4S](#)

[Our complete range of safety sensors](#)

## PXLA3010 "Bistable" sensor

celduc relais has extended its range of bistable magnetic proximity sensors with ref. PXLA3010.

[PXL3010](#) :

- Magnetic proximity sensor with reed switch
- 1 bistable contact
- Switching power: 60W

Typical application : lifts



## Magnetic proximity sensor with 2 normally open contacts

A new magnetic proximity sensor with 2 normally open contacts (**2 NO**) has been created.

Part number : [PS2A0020](#)



## SEMICON exhibition inTokyo From the 16th to 18th of December 2015 *A SUCCESS !*

celduc® relais has exhibited its new products as well as its comprehensive product ranges to SEMICON JAPAN (exhibition for electronics Manufacturing Supply Chain).



Thanks to EISHIN for the very good organisation of this event !



## Exhibition - January 2016



We are pleased to inform you that celduc products will be also presented at the **SEMICON exhibition in Seoul KOREA** from the 27th to 29th of January 2016. Come to visit us booth Nr [2341](#) !

[Website](#)

celduc relais  
5 rue Ampère - BP30004  
42290 SORBIERS - FRANCE

Tel. Standard : +33 (0) 4 77 53 90 00  
Tel. Sales department for France : +33 (0) 4 77 53 90 20

Tel. Sales department for Europe : +33 (0) 4 77 53 90 21  
Tel. Sales department for Asia : + 33 (0) 4 77 53 90 19  
Tel. Sales department for America : + 33 (0) 4 77 53 90 21  
Tel. Purchasing department : +33 (0) 4 77 53 90 18  
Tel. Financial and administrative : + 33 (0) 4 77 53 90 05  
Fax : +33 (0) 4 77 53 85 51

E-mail : [celduc-relais@celduc.com](mailto:celduc-relais@celduc.com)  
Website : [www.celduc-relais.com](http://www.celduc-relais.com)



[Google+](#)



[Community](#)

You can delete your subscription at any time,  
(according to the article 34 of the french law concerning the computer science laws).

To unsubscribe to the mailing list - [click here](#)

