

# Magnetic proximity sensors

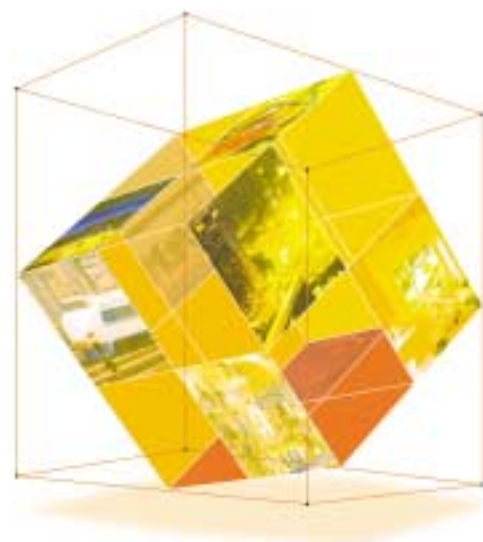
We are the experts ! !!!

If you look for a sensor for position, passage, presence, level or speed, we must have it in our range of magnetic sensors.

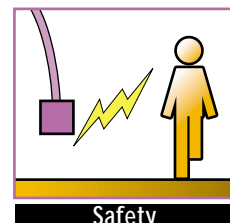
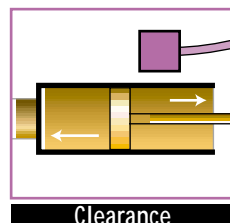
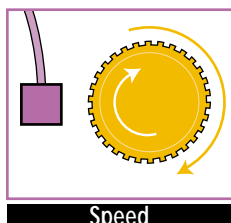
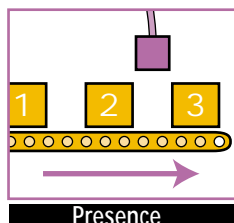
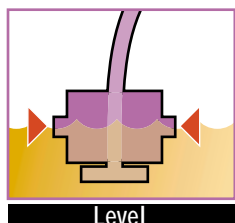
We can even design the ideal product for your applications !

At celduc® relais, we are eager to offer the best products for your application, thanks to our 30-year experience in the key technologies that we use in our products :

- Reed switch, a dry contact in a sealed glass bulb providing insulation at the same time. A simple, reliable and low cost solution.
- Electronic cell, based on either magneto-resistance or Hall effect, necessary for higher performance, particularly in frequency .



## Scope



### Industry

Counting  
Cylinder positions  
Machine safety  
Advertising panel

### Home

Burglar alarm  
Camera shutter control window position (blinds)  
Lifts  
Alarms  
Big and small household goods

### Aircraft, space and army

Fuel/oil level.  
camera shutter control

### Specific applications

ATEX (explosive atmospheres )

## Contents

	PAGES
Electronical sensors .....	20
Level sensors - PTF range .....	21
Screw sensors .....	21
Sensors for layout on PCB .....	21
PMG range .....	22
Sensors with high level of switching .....	22
Tubular sensors .....	22
Control magnets .....	22
Safety sensors .....	23
Door sensors for lifts .....	24
Special customer products .....	24

#### Contact type :

NO -> Normaly Open

NC -> Normaly Closed

Other lengths of cable or wire possible for significant quantities



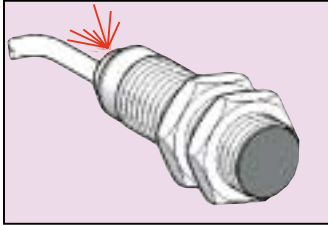
All our technical data-sheets are available in our website :  
[www.celduc.com](http://www.celduc.com)

# ELECTRONICAL SENSORS

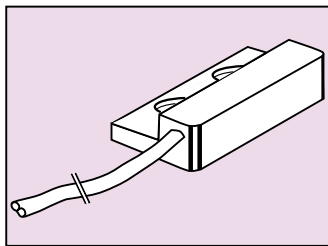


celduc<sup>®</sup> relais offers two ranges of electronical sensors :

- > HALL effect sensors.
- > Gear Tooth Sensor.



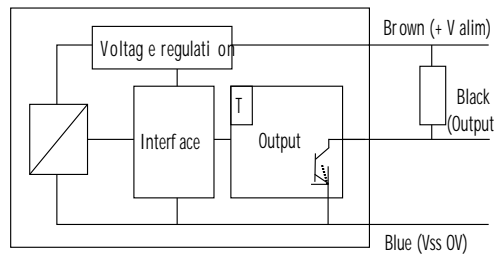
**PTE**  
(for front detection)



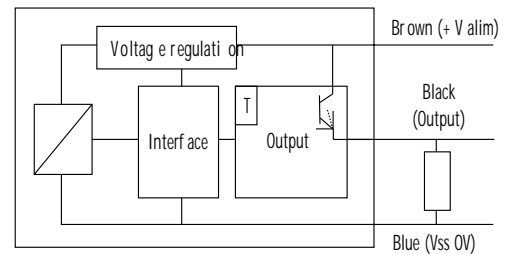
**PLE**  
(for side detection)

## Technical characteristics :

- 5-24VDC or 6-48VDC power supply with internal voltage clamping and reverse voltage protection.
- Low side or High side output.
- 25mA or 0.4A output current with overload short-circuit protection and thermal shutdown.
- Adjustable Internal delay (option on request).
- High Speed Operation > 10kHz.
- Insensible to shocks and vibrations.
- Designed in conformity with IEC/EN60947-5-2



**NPN**

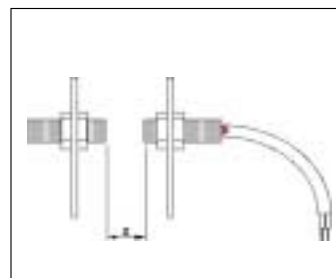


**PNP**

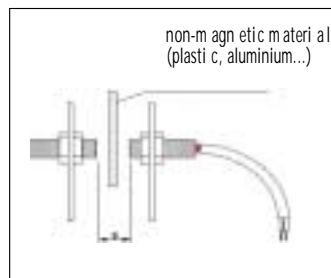
PRODUCT REFERENCE	Contact type	Connection type	Cable length	Closing distance	Max switching voltage	Max switching current	Dimensions L x l x h	Associated coded magnet
<b>PLE13320*</b>	Hall effect NPN	Cable	2 m	8 mm	5-24VDC	25mA	32x15x6,8	P6250000
<b>PLE14320**</b>	Hall effect NPN	Cable	2 m	8 mm	5-24VDC	25mA	32x15x6,8	
<b>PTE11320</b>	Hall effect PNP	Cable	2 m	19 mm	6-48VDC	0,4A	M12x33	PT810000
<b>PTE11321</b>	Hall effect NPN	Cable	2 m	19 mm	6-48VDC	0,4A	M12x33	
<b>PTE21320</b>	Gear tooth PNP	Cable	2 m	1,5 mm	6-48VDC	0,4A	M12x33	
<b>PTE21321</b>	Gear tooth NPN	Cable	2 m	1,5 mm	6-48VDC	0,4A	M12x33	

\* Front detection

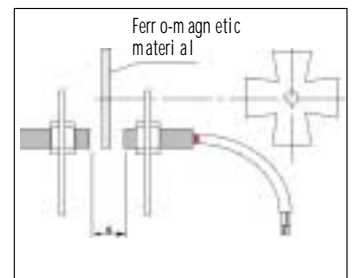
\*\* Side detection



**Direct detection**



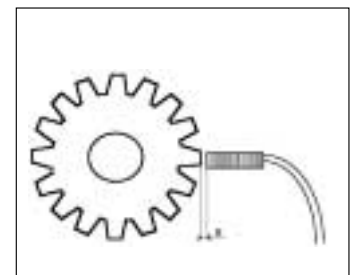
**Detection through non-magnetic material**



**Detection of ferro-magnetic (counting,...)**

## Applications :

- Industry
- Lift
- Speed sensors
- Household electronical appliances
- Tractors
- ...



**Gear tooth sensor**