

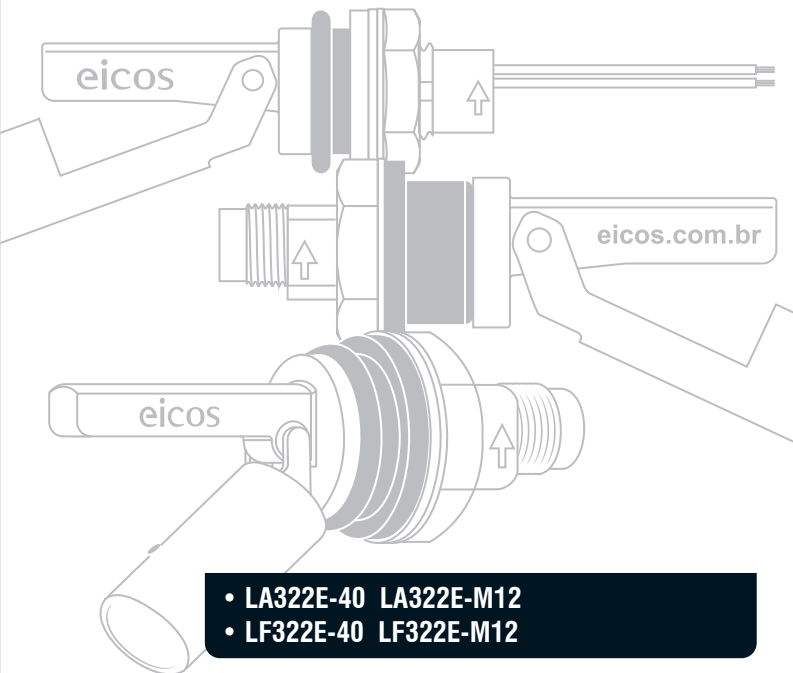
# LEVEL SWITCHES

For liquids

# eicos

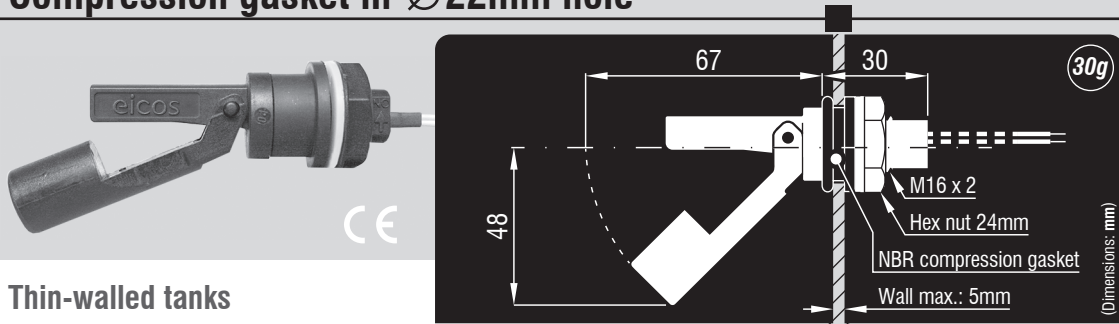
- External side mounting with compression gasket

*Read before installing*



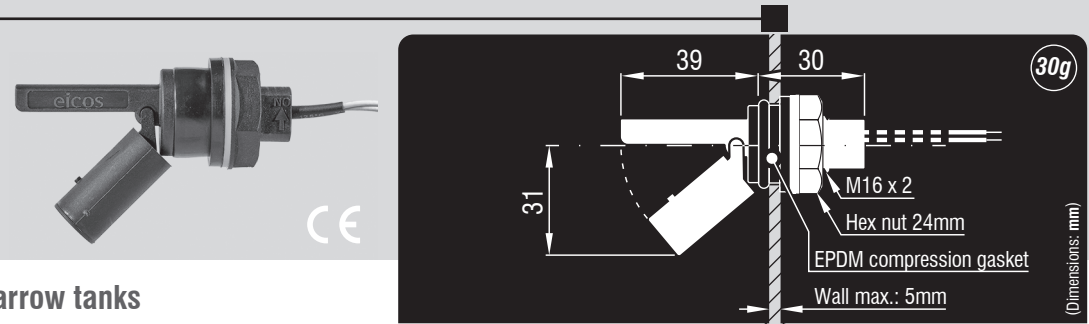
- LA322E-40 LA322E-M12
- LF322E-40 LF322E-M12

# Compression gasket in Ø22mm hole



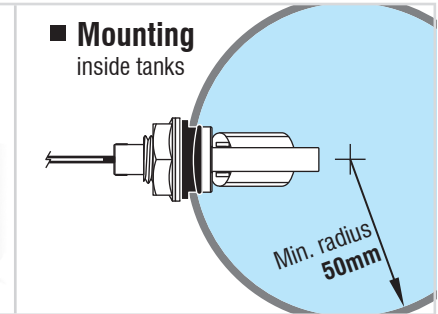
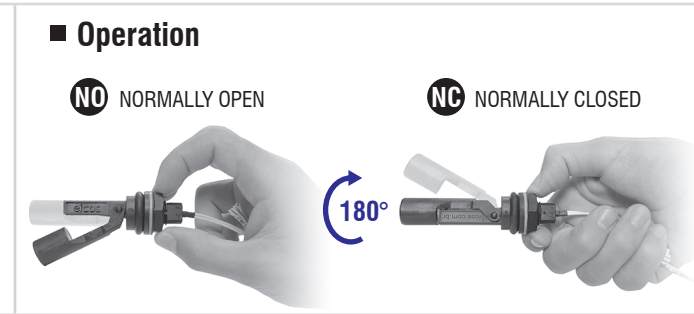
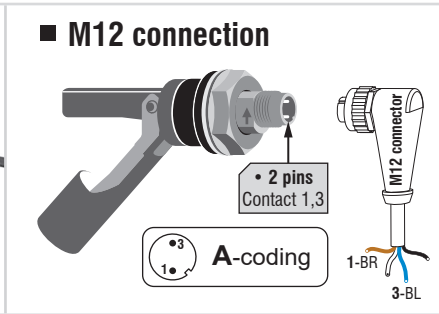
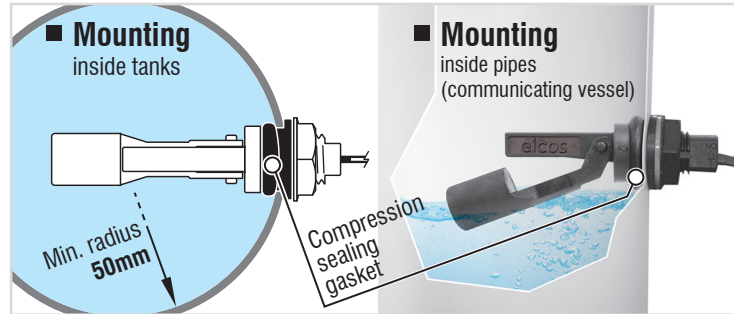
## Thin-walled tanks

Technical Specifications	LA322E-40	LA322E-M12
Output connection	40cm cable	Male M12 plug
Material	PPA	PPA
Color	Black	Black
Operating temperature range	-10°C to 125°C	
Maximum operating pressure	2bar	
Liquid minimum density (SG)	0.7	
Sealing	NBR compression gasket	



## Narrow tanks

Technical Specifications	LF322E-40	LF322E-M12
Output connection	40cm cable	Conector M12
Material	PPA	PPA
Color	Black	Black
Operating temperature range	-10°C to 125°C	
Maximum operating pressure	2bar	
Liquid minimum density (SG)	0.7	
Sealing	EPDM compression gasket	



**Constructive materials**  
 PPA Polyphthalamide (High mechanical and temperature resistance)  
 PA Polyamide (hex nut)

- Electrical contact: reed switch 20W/VA;
- It detects increased or decreased level inside the tank.

**Obs.:** Female M12 connector **not** included, but it's available on our website.

# AUXILIARY CONTACTOR (mini contactor)

Check the distances:



Direct connection  
to the **sensor**

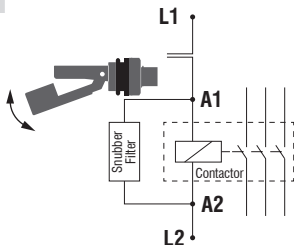
20m

Use **22R 5W**  
**resistor in series**

40m

Use  
**24Vdc voltage**

## Typical connection to contactor



Switch **NO/NC - SPST**  
Output **Contact ON/OFF**  
Enclosure rating **IP66**

**Never connect the sensor to a motor, pump, lamp or any load over than 20W.**

**Always use a contactor or relay.**

- [See \*datasheets.eicos.us\* for more information](https://www.eicos.us/datasheets) •

**The sensors work in all voltage and current ranges displayed in the table below:**

OPERATING VOLTAGE	MAX. SWITCHING POWER	MAX. SWITCHING CURRENT
110Vac	20VA	0.2A
220Vac	20VA	0.1A
5Vdc	2.5W	0.5A
12Vdc	5W	0.5A
24Vdc	10W	0.5A



- **24Vac:** Use with *Schneider relay coupler model RSLZVA1* or equivalent.
- **Relay coupler (110Vac-220Vac):** Use 4K7 10W resistor in series.

### Term of Warranty

**For installations according to this guide:**

2 (two) years warranty. **INCORRECT INSTALLATION CANCELS THE WARRANTY!**  
All sensors have been tested and approved during the manufacture process.

**Chemical products** require tests by the customer to verify compatibility with the constructive material of the sensor.

**Liquids with ferrous particles** require technical analysis: the sensor has magnetic component inside.