

Installation instructions for LLE Series Liquid level sensors

PK XP-4059
Issue 3

GENERAL DESCRIPTION

The LLE Series liquid level sensor provides a single point detection via a TTL compatible output. When liquid is present on the surface of the sensor the output sinks up to a maximum of 10 mA.

LED and phototransistor chips are sealed into the base of the plastic dome, in such a position that light is totally internally reflected from the dome boundary to the phototransistor. Thus the output is normally high. When liquid covers the dome, the change in refractive index at the boundary means light escapes into the liquid, so less light reaches the phototransistor which thus causes the output to switch low.

CLEANING

Proper fluids should be selected based on type of contaminant to be removed. Honeywell recommends freon and alcohol based solvents. Do not use chlorinated solvents such as trichlorethane as these are likely to attack the sensor material.

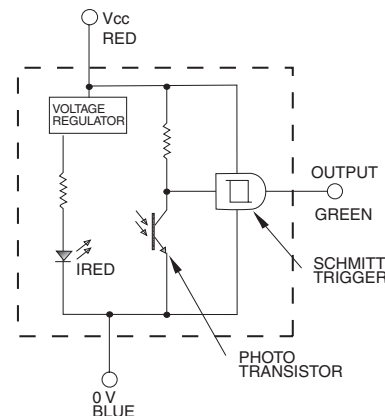
LIQUID MEDIA COMPATIBILITY

Before use check that the fluid in which you wish to use these devices is compatible with polysulphone.

ELECTRICAL SPECIFICATIONS

	Standard temperature	High temperature
Supply voltage (Vcc)	+5 Vdc to +12 Vdc $\pm$ 5 %	
Supply current @ 25 °C (77 °F)	15 mA nominal	5 mA nominal
Output sink current (Io) @ 25 °C (77 °F) @ 5 Vdc	10 mA max.	40 mA max.
Operating temperature	-25 °C to 80 °C (-13 °F to 176 °F)	-40 °C to 125 °C (-40 °F to 257 °F)
Storage temperature	-30 °C to 85 °C (-22 °F to 185 °F)	-40 °C to 125 °C (-40 °F to 257 °F)

ELECTRICAL DIAGRAM



MOUNTING

Catalogue Listing			
Standard temperature	LLE101000/102000/103000	LLE205000/305000	LLE105000
High temperature	LLE101101/102101/103101	LLE205100/305100	LLE105100
Thread	M12x1x8 g	1/2" BSPT	—
Tightening torque	1,5 N m/13.26 in lb max.	85 N m/62.69 ft lb	—
Pressure (using washer supplied)	5 bar max.	25 bar max.	—
Mounting hole	—	—	10 mm

⚠ WARNING **PERSONAL INJURY**

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

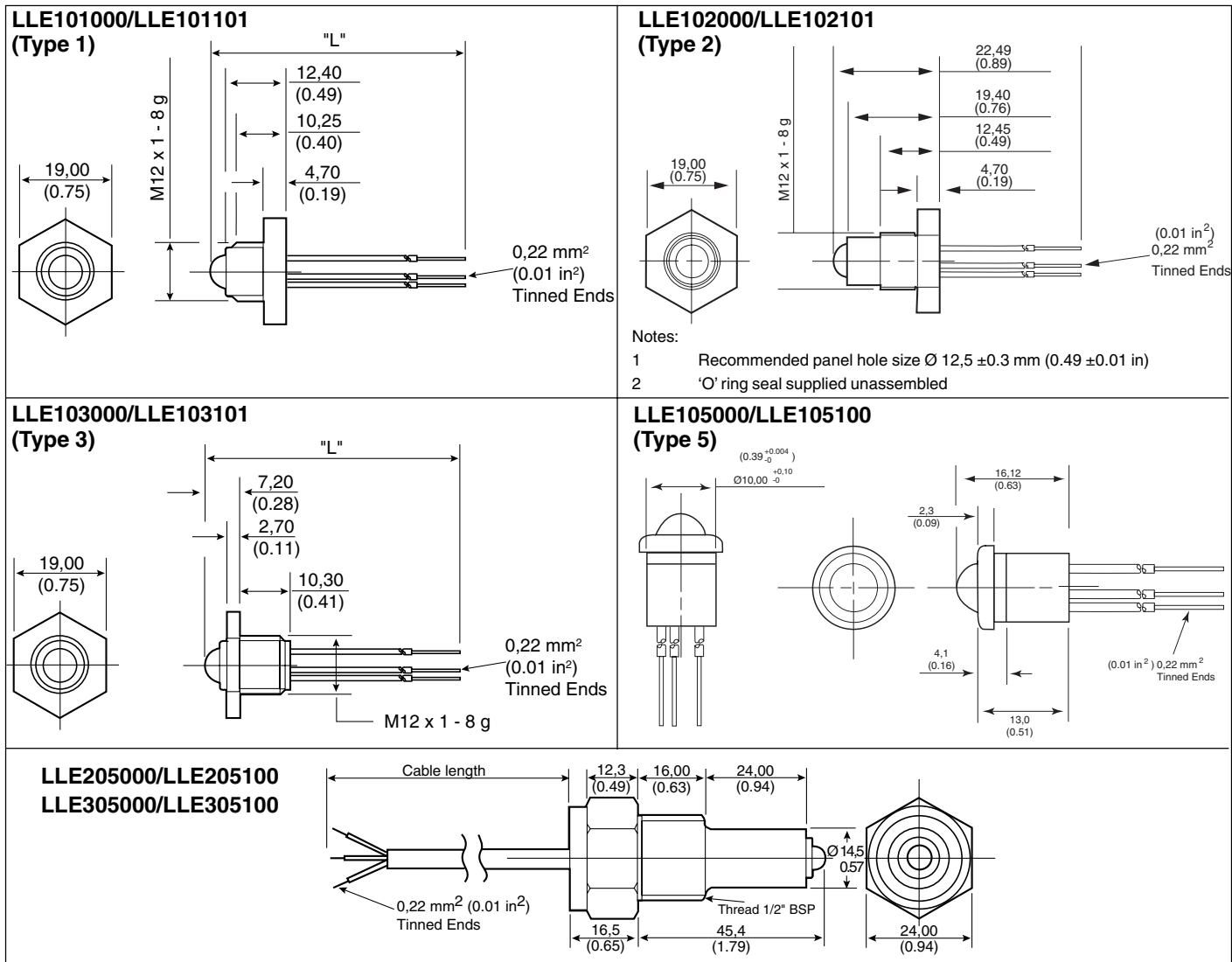
Failure to comply with these instructions could result in death or serious injury.

CAUTION

- Do not exceed maximum supply voltage.
- Although the sensor is protected against supply reversal, it is not recommended.
- Do not overtighten screw-in type.
- Do not use chlorinated solvents.
- Do not mount with dome pointing downwards.

Failure to comply with these instructions may result in product damage.

MOUNTING DIMENSIONS IN MM (INCHES) FOR REFERENCE ONLY



WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of**

merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

SALES AND SERVICE

Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office or:

E-mail: info.sc@honeywell.com

Internet: www.honeywell.com/sensing

Phone and Fax:

Asia Pacific +65 6355-2828

+65 6445-3033 Fax

Europe +44 (0) 1698 481481
+44 (0) 1698 481676 Fax

Latin America +1-305-805-8188

+1-305-883-8257 Fax

USA/Canada +1-800-537-6945

+1-815-235-6847

+1-815-235-6545 Fax

Automation and Control Solutions

Sensing and Control

Honeywell

Newhouse Industrial Estate

Motherwell, ML1 5SB, UK

www.honeywell.com

PK XP-4059 UK07 GLO

Issue 3 June 2005

Copyright 2001-2005 Honeywell International Inc.

Honeywell



**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331