



# Inductive proximity switch / 电感式接近开关



## NOTES REGARDING SAFE USE IN POTENTIALLY EXPLOSION-HAZ- ARDOUS AREAS

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### NEPSI

Compliance in accordance with standards :

- GB3836.1-2010
- GB3836.4-2010
- GB3836.20-2010

### Note the following before installation

Connection, mounting, and configuration may only be performed by trained specialists.

Make sure that you know the enclosure rating, and the rules and regulations for devices used in explosion-hazardous areas.

Check that the classification (see "Label" on the device) is suitable for the application.

Only use evaluation amplifiers that are connected to intrinsically safe, certified circuits or that do not exceed the following maximum values:

- $U_i = 15\text{ V}$
- $I_i = 50\text{ mA}$
- $P_i = 120\text{ mW}$

Permissible operating temperature of the application (see 120 mW maximum permissible output): -20 ... 60 °C.

Maximum effective internal inductance (Li) and capacity (Ci):

Part number	Type code	Internal inductance (total) in $\mu\text{H}$	Internal capacity (total) in nF	Labeling
6021123	IM08-01B-N-ZWO	70	80	Ex ia IIC T6 Ga
6021124	IM12-02B-N-ZWO	340	140	Ex ia IIC T6 Ga
6021125	IM12-04N-N-ZWO	130	140	Ex ia IIC T6 Ga
6021126	IM18-05B-N-ZWO	45	145	Ex ia IIC T6 Gb Ex ia IIC T6 Ga
6021127	IM18-08N-N-ZWO	50	155	Ex ia IIC T6 Gb Ex ia IIC T6 Ga
6021128	IM30-10B-N-ZWO	14	145	Ex ia IIC T6 Gb Ex ia IIC T6 Ga
6021129	IM30-10B-N-ZWO	110	145	Ex ia IIC T6 Gb Ex ia IIC T6 Ga

### Installation

- Observe the applicable national rules and regulations.
- Avoid generating static electricity on plastic devices and cables.
- Operation with damaged devices and cables is not permitted.
- The device is not suitable for installation in a wall that separates Zone 0 from Zone 1.
- Observe the applicable installation requirements.
- An equipotential bonding of the metal parts of the housing must be ensured through suitable mounting.

### Maintenance / repairs

The device must not be modified or repaired. Please contact the manufacturer in the event of a fault.

Technical information and NEPSI type approval certificates can, if necessary, be obtained at [www.sick.com](http://www.sick.com).

## 在爆炸性环境内安全使用的相关提示

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### NEPSI

一致性符合标准 :

- GB3836.1-2010
- GB3836.4-2010
- GB3836.20-2010

### 安装前注意:

仅允许由专业人员进行连接、安装和设置。

必须熟悉爆炸性环境中设备的外壳防护等级、法规和条例。

检查分级 (参见设备上的“标识”) 是否适用于该应用。

仅使用连接到本安型认证电路或不超过以下设备最大值的评估放大器:

- $U_i = 15\text{ V}$
- $I_i = 50\text{ mA}$
- $P_i = 120\text{ mW}$

应用的允许工作温度 (参见 120 mW 最大许可功率) : -20 ~ 60 °C.

最大内部有效电感 (Li) 和有效电容 (Ci):

订货号	类型代码	内部电感 (总), 单位为 $\mu\text{H}$	内部电容 (总), 单位为 nF	标记
6021123	IM08-01B-N-ZWO	70	80	Ex ia IIC T6 Ga
6021124	IM12-02B-N-ZWO	340	140	Ex ia IIC T6 Ga
6021125	IM12-04N-N-ZWO	130	140	Ex ia IIC T6 Ga
6021126	IM18-05B-N-ZWO	45	145	Ex ia IIC T6 Gb Ex ia IIC T6 Ga
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### 安装

- 遵守相关的国家法规和条例。
- 避免在塑料设备和塑料电缆上产生静电。
- 不允许使用损坏的设备和电缆。
- 该设备不适合安装在隔离 0 区和 1 区的墙壁上。
- 须遵守相关的安装规定。
- 必须通过妥善安装确保金属外壳零件的等电位联结。

### 维护 / 维修

设备不得进行擅自更改或维修。发生故障时, 请联系制造商。

必要时可通过 [www.sick.com](http://www.sick.com) 获取技术信息和 NEPSI 样品测试证书。