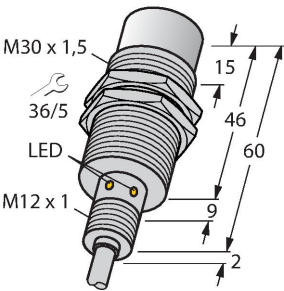


NI30U-EM30WD-AP6X

电感式传感器 – 用于食品行业



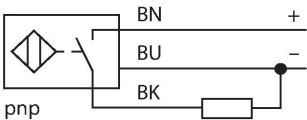
技术数据

型号	NI30U-EM30WD-AP6X
货号	1634821
常用数据	
额定开关距离	30 mm
安装条件	非齐平
安全工作距离	$\leq (0.81 \times S_n) \text{ mm}$
重复精度	$\leq 2 \text{ \% 量程}$
温度漂移	$\leq \pm 10 \text{ \%}$
	$\leq \pm 20 \text{ \%}, \leq -25 \text{ }^\circ\text{C}, \geq +70 \text{ }^\circ\text{C}$
磁滞	3...15 %
电气数据	
工作电压 U_B	10...30 VDC
纹波电压 U_{ss}	$\leq 10 \text{ \% } U_{Bmax}$
额定直流工作电流 I_o	$\leq 200 \text{ mA}$
空载电流	$\leq 25 \text{ mA}$
漏电流	$\leq 0.1 \text{ mA}$
隔离测试电压	0.5 kV
短路保护	是/循环
I_o 时的压降	$\leq 1.8 \text{ V}$
断线/反极性保护	是/是
输出性能	3线, 常开触点, PNP
直流磁场稳定性	300 mT
交流电磁场稳定性	300 mT _{ss}
防护等级	IP69K
开关频率	1 kHz
机械数据	
设计	螺纹, M30 x 1.5

特点

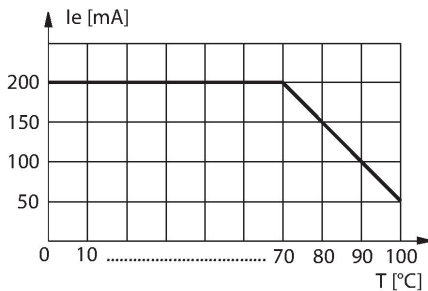
- M30 x 1.5圆柱螺纹
- 不锈钢1.4404
- 前端面采用液晶聚合物制成
- 全金属检测衰减系数恒为1
- 抗磁场干扰
- 适用温度范围：-40 °C... +100 °C
- 适合恶劣环境的IP69K防护等级
- 特殊的双重密封
- 抗常见酸碱清洗剂
- 激光雕刻标签，永不磨损
- 3线直流, 10...30 VDC
- 常开触点，PNP输出
- 线缆连接

接线图



功能原理

在食品行业使用的电感式传感器绝不渗水，并且耐清洗剂、消毒剂的腐蚀。uprox®+系列传感器可以满足IP68和IP69K的防护等级。前端防护帽和不锈钢外壳可以保护产品。



技术数据

尺寸	66 mm
外壳材料	不锈钢型, 1.4404 (AISI 316L)
感应面材料	塑料, LCP
底帽	塑料, PP, 透明的
可耐压前端防护帽	≤ 10 bar
外壳螺母的最大拧紧扭矩	75 Nm
电气连接	线缆
线缆材质	Ø 5.2 mm, 白, D12YSL9Y-OB, PP, 2 m
	不含卤素
导体横截面	3 x 0.34 mm²
环境条件	
工作温度	-40...+100 °C
防震动性	55 Hz (1 mm)
防冲击性	30 g (11 ms)
防护等级	IP68 IP69K
MTTF	874 年 符合SN 29500 (Ed.99) 40 °C认证
开关状态指示	LED指示灯, 黄色

安装说明

安装说明/描述

The image contains four technical diagrams illustrating different installation methods for the sensor:

- Top Left:** A side view of the sensor mounted on a plate. Dimension T is indicated as the distance from the mounting surface to the sensor's face.
- Top Right:** A cross-sectional view of the sensor. Dimension D is shown as the distance from the mounting surface to the top of the sensor's threaded section.
- Bottom Left:** A detailed view of the sensor mounted on a plate. Dimensions N , S , D , W , and X are indicated. N is the distance from the mounting surface to the sensor's face. S is the distance from the mounting surface to the sensor's threaded section. D is the distance from the mounting surface to the top of the sensor's threaded section. W is the distance from the mounting surface to the sensor's face. X is the distance from the mounting surface to the sensor's face.
- Bottom Right:** A side view of the sensor mounted on a plate. Dimension X is indicated as the distance from the mounting surface to the sensor's face.

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距离D	135 mm
距离W	3 x Sn
距离T	3 x B
距离S	1.5 x B
距离G	6 x Sn
距离N	15mm
B有效面积直径	Ø 30 mm

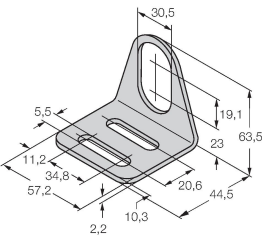
所有非齐平圆柱螺纹型 uprox®+ 系列传感器允许达到螺纹管壳的上沿嵌入式安装。安装在此位置，传感器安全操作，检测距离会有20%的衰减。

安装在特定盘上需保证X = 140 mm。

附件

MW30 6945005

用于圆柱螺纹传感器的安装托架；材料：不锈钢 A2 1.4301 (AISI 304)



BSS-30 6901319

用于平滑圆柱型和圆柱螺纹传感器的安装夹具；材料：PP

