

Metric



**SS** Stainless Steel

**2 Type**

- V** For vertical acting toggle clamp
- H** For horizontal acting toggle clamp

**3 Identification no.**

- 1** With proximity sensor
- 2** Without proximity sensor

**Metric table**

Size	b ≈		h ≈		Length l ≈		For toggle clamp	
	Type V	Type H	Type V	Type H	Type V	Type H	GN 810, GN 810.3 Type V	GN 820, GN 820.3 Type H
130	40.9 1.61	45.4 1.79	40 1.57	41 1.61	52 2.05	48 1.89	130 5.12	130 5.12
230	48.1 1.89	52.1 2.05	44 1.73	45 1.77	54 2.13	50 1.97	230 9.06	230 9.06

Dimensions in: millimeters / inches

**Specification**

**Retaining bracket / Retaining plate**

Stainless steel AISI 304

**Setting nuts**

Stainless steel AISI 304

**Socket cap screws / Washers / Nuts**

Stainless steel A2

**Proximity sensor** for identification no. 1

- Housing, stainless steel AISI 304
- Inductive, 3-pole, PNP contact
- Thread M8 x 1
- Operating temperature -13 °F to 176 °F (-25 °C to +80 °C)

RoHS

**Accessory** Page

**GN 330** Cables with Connector Coupling (3-pole, 2 or 5 meters long) QVX

**Technical Information**

General Information on Toggle Clamps QVX

Stainless Steel Characteristics QVX

Sensor holders GN 801.3 are designed as accessories for GN 810 and GN 820 series toggle clamps and enable contactless monitoring of the clamping positions using an inductive sensor.

When the clamping lever is in clamping position, the sensor electronics provide a high signal, e.g. to a machine control unit, and additionally indicate this switch status with an LED on the sensor.

Operating errors can thus be reliably detected and process reliability increased.

The sensor holder can be retrofitted to toggle clamps and mounted on the right or left, depending on the installation situation of the toggle clamp. All parts are supplied unmounted as a set. The proximity sensor is not included in the scope of delivery of identification no. 2.

**see also...**

	Page
<b>GN 810</b> Vertical Acting Toggle Clamps	QVX
<b>GN 810.3</b> Vertical Acting Toggle Clamps (with Safety Hook)	QVX
<b>GN 820</b> Horizontal Acting Toggle Clamps	QVX
<b>GN 820.3</b> Horizontal Acting Toggle Clamps (with Safety Hook)	QVX
<b>GN 801.4</b> Sensor Holder (for Toggle Clamps with Vertical Mounting Base)	QVX

**How to order**

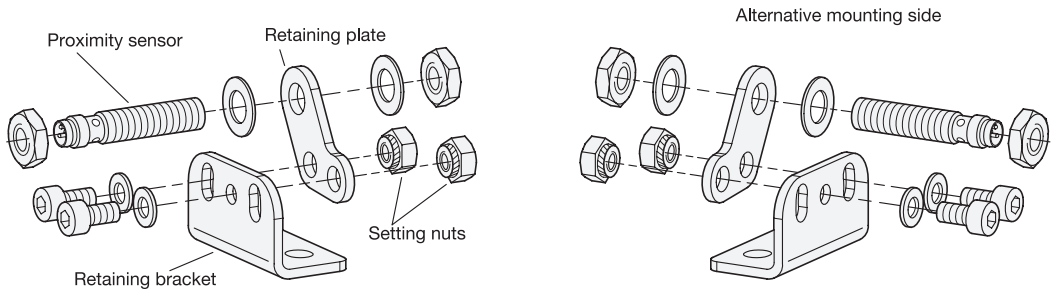
**GN801.3-130-V-1**

<b>1</b> Size
<b>2</b> Type
<b>3</b> Identification no.

1.1  
1.2  
1.3  
1.4  
2.1  
2.2  
2.3  
2.4



## Assembly Instruction



Sensor holders can be mounted on the left or right of the toggle clamp. To do this, the setting nuts must be tightened on the left or right of the retaining plate, to secure them against rotation and loss. This facilitates the further assembly of the sensor holder and the adjustment of the sensor. Subsequent changing of the mounting side is not intended.

The sensor is inserted into the bore in the retaining bracket according to the selected mounting side and the depth is adjusted and fastened using the nuts in such a way that the clamping lever reliably switches it in the clamping position.

### Electrical Properties of the Inductive Proximity Sensor

<b>Output function</b>	Normally open (NO)	
<b>Output type</b>	PNP	
<b>Supply voltage</b>	10 ... 36 V DC	
<b>Continuous current I<sub>a</sub></b>	≤ 150 mA	
<b>Connection type</b> Connector	3-pole connector M8x1	
<b>Protection type</b>	IP 67	
<b>Switching frequency</b>	Max. ≤ 2.000 Hz	
<b>Power consumption</b>	≤ 16 mA	
<b>Voltage drop</b>	≤ 2,5 V	
<b>Protection class</b>	III	
<b>Switching distance S<sub>n</sub></b>	2 mm	
<b>Operating temperature</b>	-13 °F ... 176 °F (-25 °C ... +80 °C)	
<b>Shock and vibration resistance</b>	30 g, 11 ms / 10 ... 55 Hz, 1 mm	
<b>EMC</b>	According to EN 60947-5-2	
<b>Reverse polarity protection</b>	Yes	
<b>Short-circuit protection</b>	Yes	
<b>Activation impulse suppression</b>	Yes	
<b>Approvals, conformity declarations</b> CE marking UL		