

# Pneumatic Switch Box Type NS



## General

- **Valve Type:** Rotary
- **Switch:** Mechanical, inductive
- **Body:** Polyamide
- **Cover:** Polycarbonate
- **Mounting Bracket:** 30% glass fiber reinforced Polyamide
- **Shaft:** Polyamide
- **Hardware:** Stainless steel 304, inclusive
- **Seal:** EPDM, NBR
- **Temperature:** -13°F to 176°F
- **Protection Class:** IP67
- **Cable Gland:** M20×1.5
- **Optical Indicator:** Integrated, beacon

## Key Certifications and Conformity

- VDE/VDI 3845
- CE

## Mounting

A mounting pad is integrated into the switch housing. The height is adjustable and the feet can be reversed to accommodate multiple NAMUR mounts. Stainless steel mounting hardware is included for assembly with GF actuators.

## Sample Specification

The Type NS Pneumatic Switch Box shall be used in conjunction with a rotatory open/close actuator. All variants shall utilize cams with 360° of adjustable positioning. A beacon shall offer optical position indication. The housing shall be sealed from the atmosphere via elastomeric gaskets. The mounting bracket height and width shall be adjustable. All switch boxes shall be manufactured under ISO9001 for Quality and ISO14001 for Environmental Management.

## Optional Features

- **Protection Class:** Explosion proof intrinsically safe



## Mechanical Switch Technical Data

### AgNi Contacts

- **Voltage:** 250V
- **Max AC Current:** 10A @ 250V
- **Max DC Current:** 2.5A @ 24V
- **Temperature:** -4 °F to 176 °F
- **Beacon:** Dome

### Au Contacts

- **Voltage:** 250V
- **Max AC Current:** 0.1A @ 250V
- **Max DC Current:** 0.1A @ 24V
- **Temperature:** -4 °F to 176 °F
- **Beacon:** Dome

## Optional Switches

### Explosion Proof

- **Housing Material:** Vestamid
- **Switch:** BARTEC
- **Switch Type:** Mechanical
- **Contact:** Ag
- **Voltage:** 250V
- **Max AC Current:** 4A @ 250V
- **Max DC Current:** 400mA @ 30V
- **Rated Zones:** Zone 1 / Zone 22
- **ATEX Explosion Protection:** II 2G EEx d IIC T6
- **ATEX Certification:** EPS 14 ATEX 1 765 U
- **IECEX Explosion Protection:** Ex d IIC Gb
- **IECEX Certification:** IECEX EPS 14.0091 U
- **Protection Class:** IP66
- **Temperature:** -4 °F to 104 °F
- **Beacon:** Flat



## Inductive Switch Technical Data

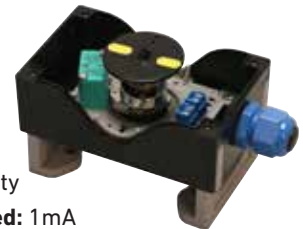
### PNP/NPN

- **Voltage:** 10-30VDC
- **Max Current:** 100mA
- **Switch Type:** 3-wire proximity
- **Non-Loaded Supply Current:** 15mA
- **Max Frequency:** 1000 Hz
- **Output Indicator:** Yellow LED
- **Temperature:** -13 °F to 176 °F
- **Beacon:** Dome



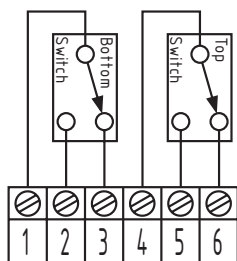
### Intrinsically Safe

- **Housing Material:** Vestamid
- **Switch:** PEPPERL + FUCHS
- **Voltage:** 8.2VDC
- **Switch Type:** 2-wire proximity
- **Current with Switch Engaged:** 1mA
- **Current with Switch Disengaged:** 3mA
- **Max Frequency:** 1000 Hz
- **EMC Compliance:** IEC EN60947-5-2
- **Namur Compliance:** DIN EN60947-5-6
- **SIL Classification:** IEC61508
- **Rated Zones:** Zone 1 / Zone 21
- **ATEX Protection:** II 2G EEx ia IIC T6 Gb
- **Protection Class:** IP67
- **Temperature:** -13 °F to 212 °F
- **Beacon:** Flat



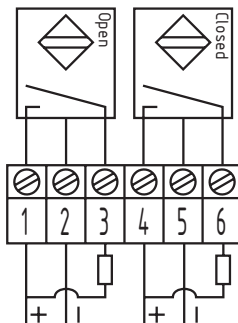
## Wiring

### Inductive



Normally Closed  
Normally Open  
Common  
Normally Closed  
Normally Open  
Common

### Mechanical



## Dimensions

The following dimensions are shown in millimeters unless otherwise specified

