

Position Monitoring Switchbox



IP67 water-proof
316SS



IP67 water-proof



IP67 water-proof
IP68 (50M @72hrs tested by SGS)
SIL3 Approval



IP67 / ExdIICT6 Explosion-proof
316SS



Magnet Type, 2xSPST/NO
Reed Switch, 0.5A at 250VAC



IP68 (30M @24hrs tested by TUV)
IP67 & ExdIICT6 Explosion-proof
SIL3 Approval
316SS



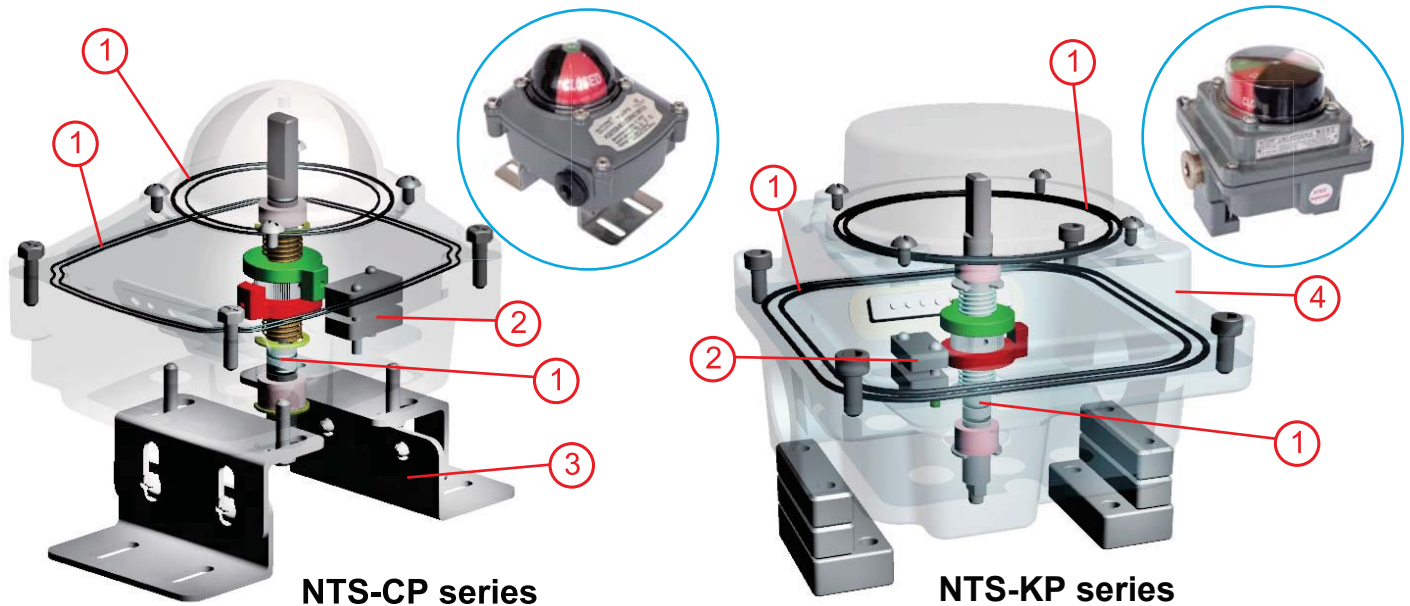
IP68 (30M @24hrs tested by TUV)
IP67 & ExdIICT6 Explosion-proof
SIL3 Approval



IP67 / ExdIICT6 Explosion-proof
SIL3 Approval

Position Monitoring Switchbox | NUTORK®

Patent Design, Water Proof IP68 (TUV 30M / 24hr, SGS 50M / 72hr)



1. Double seal, IP68 patent design

2. Optional P&F SIL2 proximity switch

3. Stainless Steel universal bracket

4. ATEX EExdIIBT6 explosion-proof



ATEX EExdIIBT6 explosion-proof



TUV 30M / 24hr



SGS 50M / 72hr

Position Monitoring Switchbox

NUTORK®

NTS Valve Position Monitor(Limit Switchbox)

Material of Construction

Aluminum Alloy Body NTS -A, C, CS, CP, P, S Series

316SS Body CS, S, SS Series



NTS-A

IP67 water-proof



NTS-C/CP

IP67 water-proof

IP68 (50M @72hrs
tested by SGS)

SIL3 Approval



NTS-CS

IP67 water-proof

316SS



NTS-P

IP68 (30M @24hrs
tested by TUV)

IP67 & ExdIIBT6

Explosion-proof
SIL3 Approval



NTS-S

IP68 (30M @24hrs
tested by TUV)

IP67 & ExdIIBT6

Explosion-proof
SIL3 Approval
316SS



NTS-Ex

IP67/ExdIIBT6
Ex-proof

SIL3 Approval

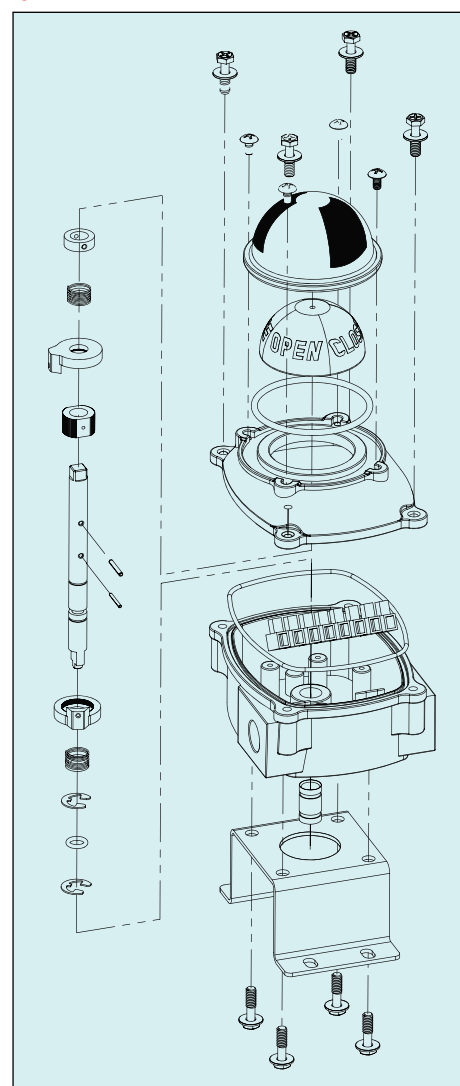


NTS-SS

IP67/ExdIIBT6
Ex-proof

316SS

Housing	Low cooper aluminum die-casting
Coating	Epoxy-Polyester
Sealing	NBR O-rings on each interface (Dome indicator, Lower/Upper Housing, Shaft)
Case	Poly-Carbonate
Bushings	Brass
Shaft	AISI304 Stainless Steel
Earth Lug	Stainless Steel
Mounting Bracket	AISI304 Stainless Steel



NTS Valve Position Monitor (Limit Switchbox)

NKS-A,C,CP,CS,K,KP,KS,F,H ,HS, Series General Specification

	NTS-A Series,Weather-Proof -Enclosure: Aluminum Die-casting, Weather proof - IP67/NEMA 4&4X, - Bolts on visual position indicator - Switches: 2×SPDT mechanical switch - Cable Entry: 2×1/2"NPT(std.) or M20×1.5 - Terminal Strip: points(0.08~2.5mm2), Option:8 points - Easy mounting, Namur standard, stainless steel bracket & bolts
 316SS	NTS-C/CP Series,Weather-Proof, SIL3 Approval NTS-CS (316SS) Series,Weatherr-Proof. - Enclosure: NTS-C/CP Series: Aluminum Die-casting , NTS-CS Series: 316SS material, Weather proof - IP67/NEMA 4&4X, IP68 water-proof - Bolts on visual position indicator - Switches: 2, 3 or 4×SPDT mechanical switch or proximity - Cable Entry: 2×1/2"NPT(std.) or M20×1.5 - Terminal Strip: points(0.08~2.5mm2), Option:8-16 points - Easy mounting, Namur standard, stainless steel bracket & bolts
 316SS	NTS-H Series,Ex-Proof(ExdIICT6), SIL3 Approval NTS-HS (316SS) Series,Ex-Proof(ExdIICT6) - Enclosure: NTS-H Series: Aluminum Die-casting, NTS-HS Series: 316SS material. Weather proof - IP67/NEMA 4&4X, IP68 (Optional) & Explosion proof: EExdIICT6 - Bolts on visual position indicator - Switches: 2, 3 or 4×SPDT mechanical switch or proximity - Cable Entry: 2×3/4"NPT(std.) or M20×1.5 - Terminal Strip: points(0.08~2.5mm2), Option:8-16 points - Easy mounting, Namur standard, stainless steel bracket & bolts
 316SS	NTS-K/KP Series,IP67/IP68 Water-proof, ExdIICT6 Ex-proof, SIL3 Approval NTS-KS (316SS) Series,Ex-Proof(ExdIICT6) - Enclosure: NTS-K/KP Series: Aluminum Die-casting, NTS-KS Series:316SS material. Weather proof - IP67/IP68 Water-proof, ExdIICT6 Ex-proof - Bolts on visual position Indicator - Switches: 2, 3 or 4 x SPDT mechanical switch or proximity - Cable Entry: 2 x 3/4"NPT(std.). Option:M20,PG13.5,PF1/2",PT1/2" - Terminal Strip: 8 points(0.08 – 2.5mm2), Option: 8-16 points - Easy mounting, Namur standard, stainless steel bracket & bolts
	NTS-F Series,Weather-Proof - Enclosure: ABS plastic, weather-proof, IP67/NEMA 4 &4X - Visual position Indicator - Switches: 2 x SPST magnet reed switch, LED indicator - 0.7 meter lead wire(std.), option: quick coupler - Easy mounting, Namur Standard, stainless steel bracket & bolts

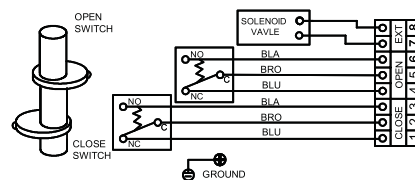
Note: A.Standard Specification: 1.Captive cover bolts. 2.Polyester powder coating(black color).
3.Ambient Temp.: -20 ~ +80°C
B.The other paining & colors are available upon request.

NTS Valve Position Monitor (Limit Switchbox)

Switches, Wiring and Bracket(NTS-A,C,CP,CS,K,KP,KS,H,HS)

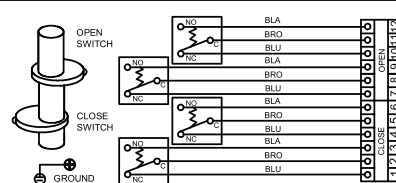
2-SPDT mechanical switches

Rating: 16A@125/250VAC,
0.6A@125VDC, 0.3A@250VDC
3A@24VDC
approved by UL, CSA



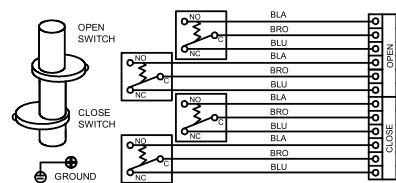
4-SPDT mechanical switches

Rating: 16A@125/250VAC,
0.6A@125VDC, 0.3A@250VDC
3A@24VDC
approved by UL, CSA



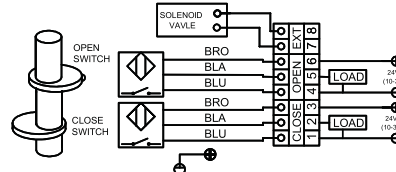
2-DPDT mechanical switches

Rating : 10A 125 or 250VAC
2A 480VAC
1/8HP 125VAC, 0.25HP 250VAC
0.5A 125VDC, 0.25A 250VDC
approved by UL, CSA



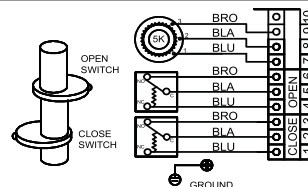
Autonics proximity sensors PS17-5DNU(NPN, PNP), 3-wire

Voltage rating : 10~30VDC
Sensing distance : 5mm
Ambient temperature : -25~+70°C



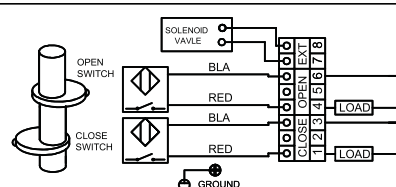
P & F proximity sensors NJ2-V3-N(Intrinsic safe, 2-wire)

Voltage rating : 8.2 V DC
Sensing distance : 2mm
Ambient temperature : -25~+100°C



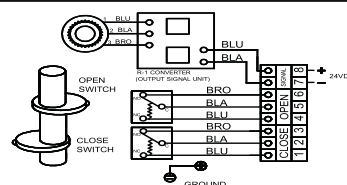
Potentiometer

Providing 0-1K ohm output signal,
Options: 0-5K or 10K ohm



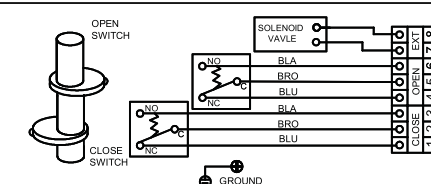
Position Transmitter

Providing 4-20mA DC(or 0~1K ohm)
output signal as feedback, 15~28VDC
loop power(24V DC input power)
Load impedance : 0~600 Ohm,
Max output : 35mA DC
Adjustment : Zero and span



Magnet type reed switch

Hermetically sealed,2×SPDT or DPDT
Rating:3A@5-240VAC/DC
Sensing distance: 5mm
Ambient temperature : -40~+125°C
EExialICT6 & EExdIICT6 approved

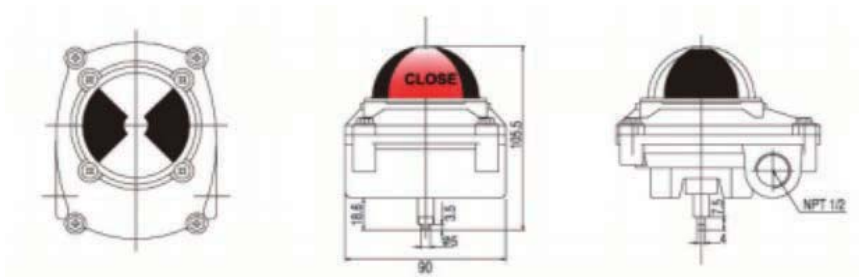


Position Monitoring Switchbox | NUTORK®

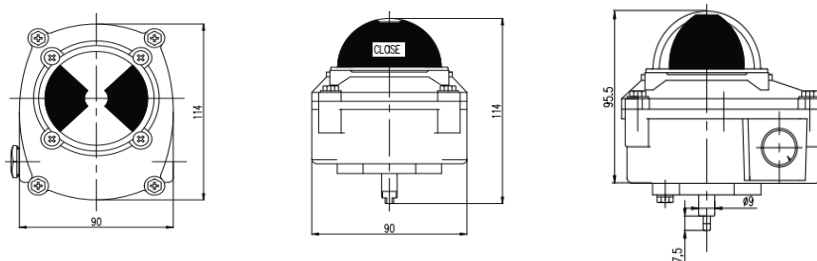
NTS Valve Position Monitor (Limit Switchbox)

Dimension

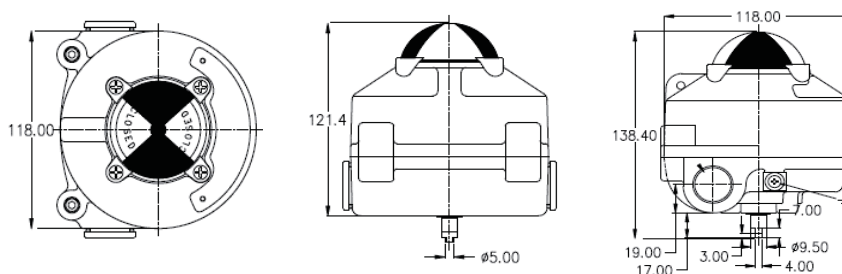
NTS-A Series



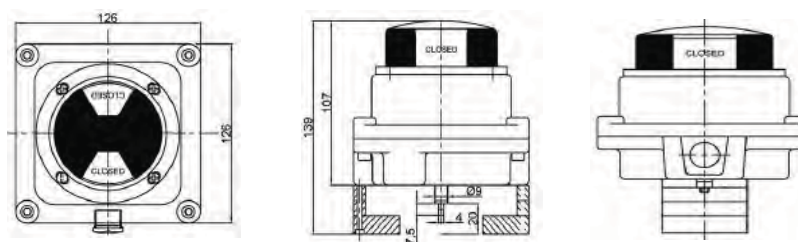
NTS-C/CP/CS Series



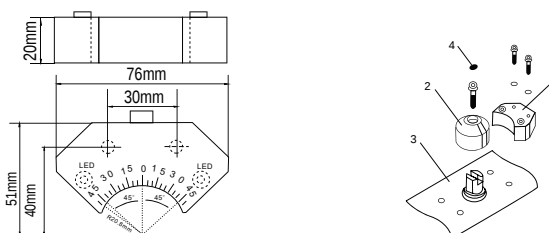
NTS-H/HS Series



NTS-K/KP/KS Series



NTS-F Series



Ordering Information:

NTS - C - 10 - S1

Enclosure Type:

A series(Aluminum Die-Casting Housing,IP67/Weather-Proof)
C series(Aluminum Die-Casting Housing,IP67/Weather-Proof)
CP series(Aluminum Die-Casting Housing, **IP68/Weather-Proof**)

Submerged 50Meter@72hrs approved by SGS

CS series(**316SS** Housing,IP67/Weather-Proof)
H series(Aluminum Die-Casting Housing,IP67/ExdIICT6)

HS series(**316SS** Housing,IP67/ExdIICT6)

K series(Aluminum Die-Casting Housing,IP67/ExdIICT6)

KP series(Aluminum Die-Casting Housing, **IP68/ExdIICT6**)

Submerged 30Meter@24hrs approved by TUV

KS series(**316SS** Housing,IP67/ExdIICT6)

F series(ABS Housing,IP65/Weather-Proof)

Note: NTS-H/HS/K/KS series limit switchbox are approved by CE-ATEX.

Switch Type

Mechanical Switch:

10 - 2xSPDT,mechanical type,16A at 125/250VAC; 0.6A at 125VDC

12 - 4xSPDT,mechanical type,16A at 125/250VAC; 0.6A at 125VDC

13 - 2xDPDT,mechanical type,16A at 125/250VAC; 0.6A at 125VDC

14 - 2xSPDT+Potentiometer(0-5K/10K ohm)

15 - 2xSPDT+Position Transmitter(4-20mADC output)

Note: NTS-A series is not available at switch type 12~15

NTS-C/CP/CS series is not available at switch type 14&15

Inductive / Magnet Type Proximity Sensor

21 - P&F NJ2-V3-N (2 wire/NC,8.2VDC,ExialIICT6 Ga, IP67, SIL2 approval)

22 - P&F NCB2-V3-N0 (2 wire/NC,8.2VDC,ExialIICT6 Ga,IP67,SIL2 approval)

23 - P&F NBN5-F7-E2(3-wire,PNP/NO,IP67, 10~30 VDC)

24 - NUTORK NBB3-V3-Z4(3 or 2-wire,NO or NC,IP67,10-30VDC)

25 - Nutork Magnet Type Hermitically Sealed Switch
2xSPDT(0.5A@5-240VAC/DC,EEExialIICT6 & EEExdIICT6)

26 - Nutork Magnet Type Hermitically Sealed Switch
2xSPDT(3A@5-240VAC/DC,EEExialIICT6 & EEExdIICT6)

27 - Nutork Magnet Type Hermitically Sealed Switch
2xDPDT(3A@5-240VAC/DC,EEExialIICT6 & EEExdIICT6)

Note: NTS-A series is not available at 24, 25, 26 & 27

NTS-C/CP/CS series is not available at 26 & 27

Bracket Material

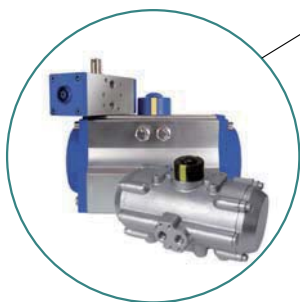
Blank - S.S. Universal Bracket(Standard) for all Namur Dimension

S1: 80x30x20 Namur S.S. Bracket

S2:130x30x30 Namur S.S. Bracket

Note: The price is included 304SS bracket as the standard for all switchbox

NUTORK CORP. manufactures a wide range of pneumatic actuators, electric actuators and the accessories of pneumatic actuator (limit switchbox, solenoid valve, manual override ---etc.) for quarter turn valves



Rack & Pinion Type Pneumatic Actuator.
Max. Output Torque: 9,768Nm
Approved by ATEX/SIL3/EAC/SGS



Scotch Yoke Type Pneumatic & Hydraulic Actuator.
Max. Output Torque 238,818Nm
Approved by ATEX/SIL3/EAC



NTQ Series Electric Actuator
IP67/IP68(30M@24hrs)Enclosure & EExdIIBT6Max. Output Torque 6000Nm
Approved by SIL3/IP68/MD/LVD/EMC & Approved by ATEX/EAC/DNV



NTE Series Electric Actuator
IP67/IP68(30M@24hrs) EnclosureMax. Output Torque 6000Nm
Approved by SIL3/IP68/MD/LVD/EMC & Approved by EAC/DNV



Limit Switchbox IP67/IP68(50M@72hrs) Enclosure & EExdIIBT6/EExdIICT6
Approved by ATEX/SIL3/EAC



Solenoid Valve 3/2NC & 5/2 Way, Static O-ring Sealing Design.
Aluminum & 316SS Body
IP67 & EExdIIBT6/EExdIICT6
Approved by ATEX/SIL3/SGS



Air Filter Regulator Aluminum Body with Vinyl Paint & 316SS Body.
Size: 1/4" ~ 2"
Approved by EAC/SGS



Manual Override Aluminum & Cast Iron & Ductile Iron Body
Max Output Torque 18,000Nm



Ball valve (Floating ball design), We can provide different pressure rating/ connection type/ operation mode.



Concentric Soft Seated Butterfly Valve
High Performance Double Eccentric Butterfly Valve
High Performance Triple Offset Metal Seated Butterfly Valve
We can provide different pressure rating/ connection type/ operation mode.