

Position Monitoring Switchbox



IP67 water-proof
316SS



IP67 water-proof



IP67 water-proof
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

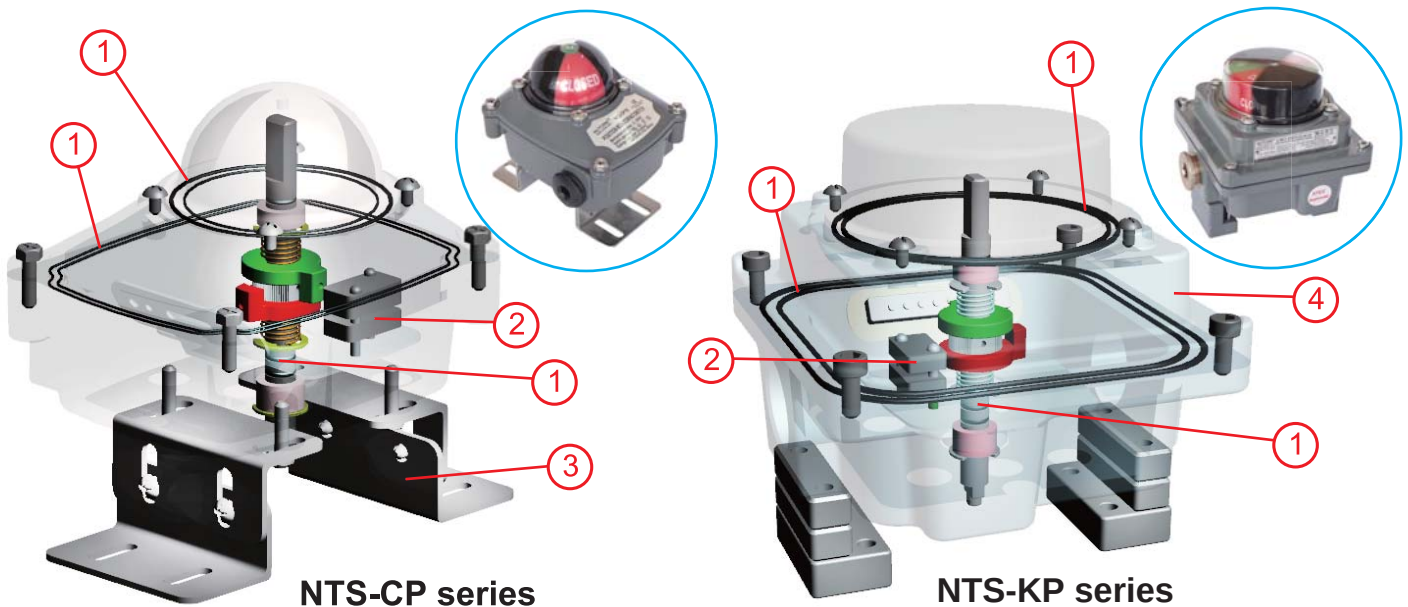


IP68 (30M @24hrs tested by TUV)
IP67 & ExdIICT6 Explosion-proof
SIL3 Approval



IP67 / ExdIICT6 Explosion-proof
SIL3 Approval

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

NTS Valve Position Monitor(Limit Switchbox)

Material of Construction

Aluminum Alloy Body: NTS -A, C, CS, CP, K, KP, H Series

316SS Body: CS, HS, KS Series



NTS-A

IP67 water-proof
SIL3 Approval



NTS-C/CP

IP67 water-proof
SIL3 Approval



NTS-CS

IP67 water-proof
316SS



NTS-K/KP

IP68 (30M @24hrs
tested by TUV)
IP67 & ExdIIBT6
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NTS-KS

IP68 (30M @24hrs
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IP67 & ExdIIBT6
Explosion-proof
SIL3 Approval
316SS



NTS-H

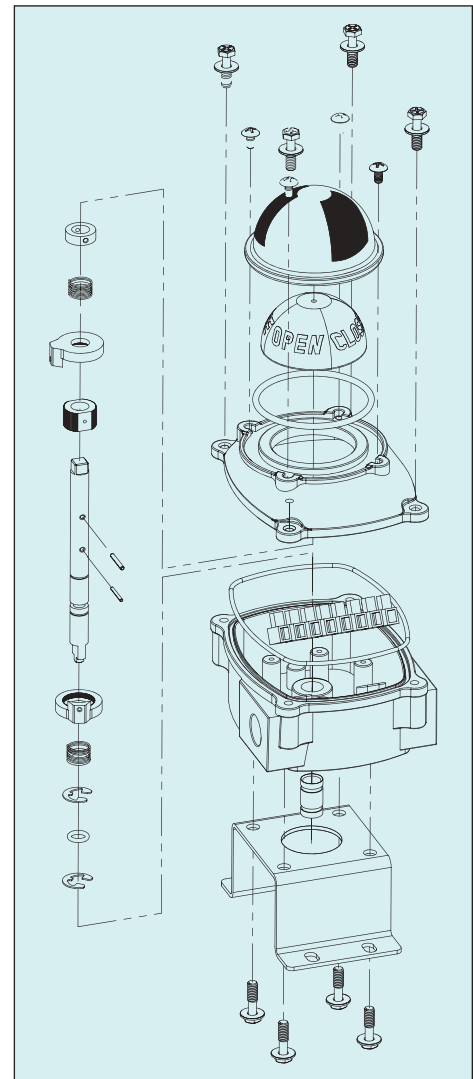
IP67/ExdIICT6
Ex-proof
SIL3 Approval



NTS-HS

IP67/ExdIICT6
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)
Cams	Poly-Carbonate
Bushings	Bronze
Shaft	AISI304 Stainless Steel
Earth Lug	Stainless Steel
Mounting Bracket	AISI304 Stainless Steel



NTS Valve Position Monitor (Limit Switchbox)

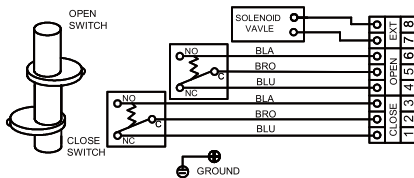
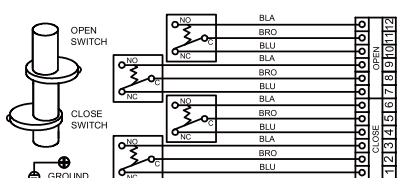
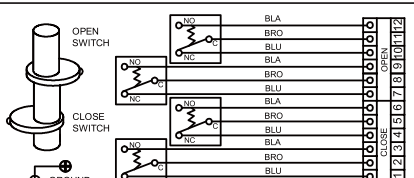
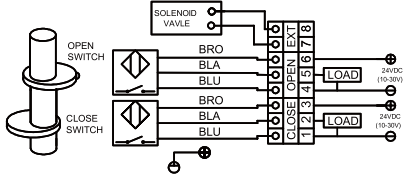
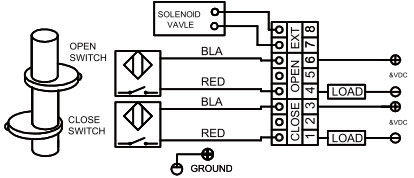
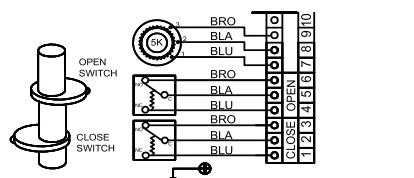
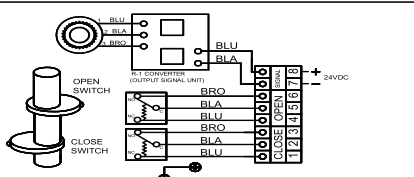
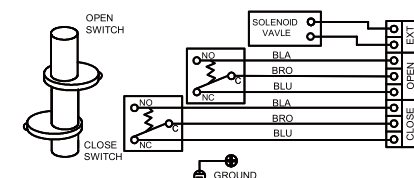
NKS-A,C,CP,CS,K,KP,KS,F,H ,HS, Series General Specification

	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, Weather-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 painting & colors are available upon request.

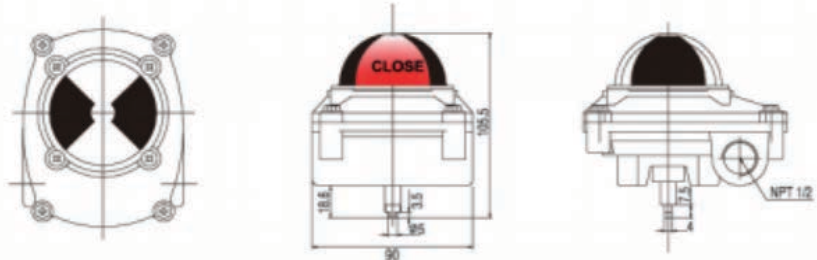
NTS Valve Position Monitor (Limit Switchbox)

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

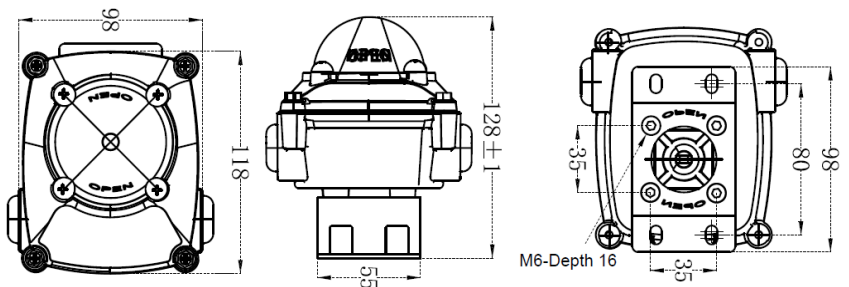
2-SPDT mechanical switches Rating: 16A@125/250VAC, 0.6A@125VDC, 0.3A@250VDC 3A@24VDC approved by UL, CSA		
4-SPDT mechanical switches Rating: 16A@125/250VAC, 0.6A@125VDC, 0.3A@250VDC 3A@24VDC approved by UL, CSA		
2-DPDT mechanical switches Rating : 10A 125 or 250VAC 2A 480VAC 1/8HP 125VAC, 0.25HP 250VAC 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,2xSPDT or DPDT Rating:3A@5-240VAC/DC Sensing distance: 5mm Ambient temperature : -40~+125°C EExialICT6 & EExdIICT6 approved		

NTS Valve Position Monitor (Limit Switchbox) Dimension

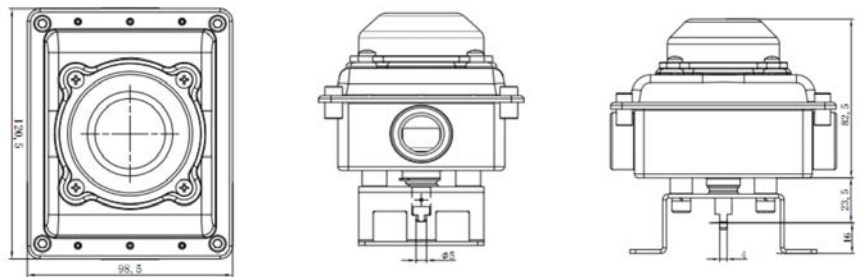
NTS-A Series



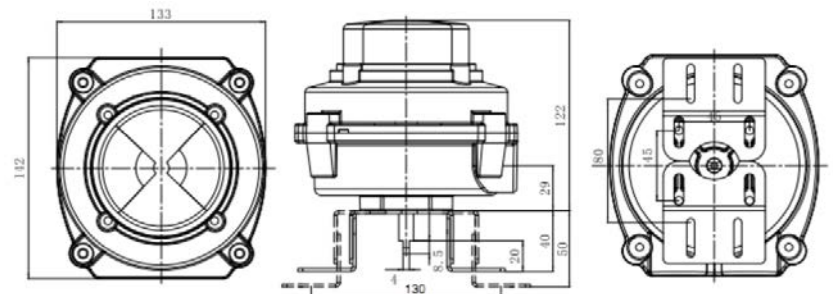
NTS-C Series



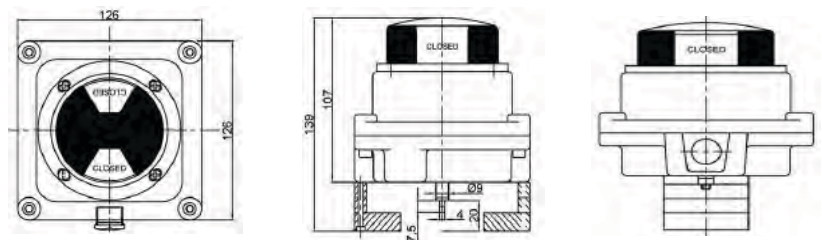
NTS-CS Series



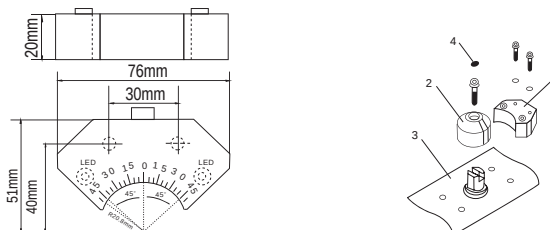
NTS-H/HS Series



NTS-K/KP/KS Series



NTS-F Series



Ordering Information:

NTS - C - 10 - S1

Enclosure Type:

A series(Aluminum Die-Casting Housing,IP 67/Weather-Proof)
 C series(Aluminum Die-Casting Housing,IP 67/Weather-Proof)
 CP series(Aluminum Die-Casting Housing, **IP68/Weather-Proof**)
 Submerged 50Meter@72hrs approved by SGS
 CS6 series(**316SS** Housing,IP67/Weather-Proof)
 CS4 series(**304SS** 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/ExdII BT6)
 KP series(Aluminum Die-Casting Housing, **IP68/ExdII BT6**)
 Submerged 30Meter@24hrs approved by TUV
 KS series(**316SS** Housing,IP67/ExdII BT6)
 F series(ABS Housing,IP65/Weather-Proof)
Note: NTS-H/K 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)
 Note: NTS-A/C/CP/CS series is not available.
 15 - 2xSPDT+Position Transmitter(4-20mADC output)
 Note: NTS-A/C/CP/CS series is not available.

Proximity Switch (Inductive Type & Magnet Type):

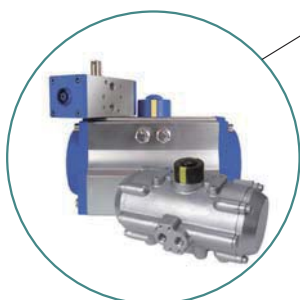
21 - P&F NJ2-V3-N (2 wire/NC,8.2VDC,ExialI CT6 Ga, IP67, SIL2 approval)
 21.1 - Nutork NTS-21.1(2-wire,NC,EEExialI CT6)
 22 - P&F NCB2-V3-N0 (2 wire/NC,8.2VDC,ExialI CT6 Ga,IP67,SIL2 approval)
 23 - P&F NBN5-F7-E2(3-wire,PNP/NO,IP67, 10~30 VDC)
 24 - P&F NBB3-V3-Z4(2-wire,NO,IP67,10-30VDC)
 24.1 - Nutork NTS-24.1(3-wire PNP or NPN & 2-wire NO or NC, LED)
 25 - Nutork Magnet Type Hermetically Sealed Switch
 2xSPDT(0.5A@ 5-240VAC/DC,EEExialI CT6 & EEExdII CT6)
 26 - Nutork Magnet Type Hermetically Sealed Switch
 2xSPDT(3A @ 5-240VAC/DC,EEExialI CT6 & EEExdII CT6)
 Note: NTS-A/C/CP/CS series is not available.
 27 - Nutork Magnet Type Hermetically Sealed Switch
 2xDPDT(3A @ 5-240VAC/DC,EEExialI CT6 & EEExdII CT6)
 Note: NTS-A/C/CP/CS series is not available.

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 & EExdIIBT6
Max. Output Torque 6000Nm
Approved by SIL3/IP68/MD/LVD/EMC & Approved by ATEX/EAC/DNV

NTE Series Electric Actuator
IP67/IP68(30M@24hrs)
Enclosure
Max. 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.

