Data Sheet



T4/T7 Series NEMA 4X, 7/9 Temperature Switches

FEATURES

- Precision SPDT or DPDT snap-acting micro switch operation
- Single setpoint adjustable from 0-100% of range
- Fixed or limited adjustable deadband
- Internal set point locking screw (T4)
- Direct or remote reading thermal systems
- Choice of temperature ranges (from -40°F to 750°F) Explosion proof enclosure provides uncompromising protection
- Wide selection of switch elements

TYPICAL USES

- Offshore oil rigs
- Chemical and petrochemical plants
- Pulp and paper mills
- Power plants
- Steel mills
- Water and sewage treatment plants
- Pumps, compressors and turbines
- Boilers and burners
- Degreasers and evaporators
- **Recovery systems**
- Reverse osmosis systems and filters
- Food processing
- Ground support equipment
- Hydraulic and lubrication systems
- Heating and air conditioning
- Marine equipment
- Specialized OEM equipment

PERFORMANCE SPECIFICATIONS

	Set Repeatability (Accuracy):	±1% of span						
	Switch Type:	SPDT or 2 SPDT acting as DPDT						
	Setpoint:	Single setpoint - factory set or field adjustable						
	Deadband:	Fixed or limited adjustable deadband						
	Enclosure Ratings:	T4-NEMA 4X, IP66 T7-NEMA 7 & 9, IP66						
	Enclosure Material:	Watertight: epoxy coated aluminum Explosion: epoxy coated aluminum, 316 SS (OPT.)						
	Pressure Connection Size:	Direct Mount: ½ NPT Male Remote Mount: N/A- (OPT.) ½ NPT male bushing (XBX)						
	Electrical Termination:	34 NPT Female						
	Direct Mount:	Stem lengths from 23/4" to 24"						
	Remote Mount:	Capillary lengths from 5' to 25' (5 ft. increments)						
1								





T4 NEMA 4X Direct Mount Temperature Switch



T7 NEMA 7 & 9, **Remote Mount Temperature Switch** (shown with optional XBX 1/2" male bushing)

KEY BENEFITS

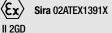
- Highly reliable
- Designed for use in wide range of applications
- Easily configurable to meet your application requirements
- Hermetically sealed micro switches offer improved reliability and safety (UL Class I Div II approval)

Approvals:

Watertight: UL, CSA, CE Explosion: T7 series - UL, CSA, ATEX, IECEx, CE



CLASS I DIV 1 GROUPS B, C, & D CLASS II DIV 1 GROUPS E, F, & G



Ex d IIC T6 Gb Ex the life To the Ex to life To the Ex to life To the Ex to 100 To the ExTa = -20°C to 60°C

WETTED COMPONENTS

Remote Mount
Bulb, capillary: 316 Spiral armor: 302 S

capillary: 316 SS al armor: 302 SS

IECEx

CSA 14.0077X

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Data Sheet



T4/T7 Series NEMA 4X, 7/9 Temperature Switches

OPDECRING CODE Example: T4 20 T05 0.27 XNH 75/205F The distarting tenciouse meals NEMA 3.4. At 3.1 3 and PB® requirements T4 T4 20 T05 0.27 XNH 75/205F To Explosion/roof enclosure NEMA 3.4. At 3.1 3 and PB® requirements T4 T4 20 T05 0.27 XNH 75/205F 2 Intermoticity seeder, narrow deadband, 5A, 125/250 Vac 20 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>										
14 - Waterlight enclosure meats NEMA 3, 4, 7,8 and IP66 requirements T4 71 - Explosion-profe enclosure NEMA 3, 4, 7,8 a, 9(P66 20 Switch Elements, UL/CSA Listed (1 SPD7) 20 21 - Ammonia service, 5A, 125/250 Vac 20 21 - Ammonia service, 5A, 125/250 Vac 20 23 - Heavy duty ac, 22A, 125/250 Vac 20 24 - General purpose, 15A, 125/250 Vac 20 25 - Heavy duty dc, 10A, 125 Vac or dc, 74 HP, 126 Vac or dc 20 26 - Marour deadband, 15A, 125/250 Vac 20 27 - High temerature 300°F, 15A, 125/250 Vac 20 28 - Moural reset trip on increasing, 15A, 125/250 Vac 20 29 - Moural reset trip on increasing, 15A, 125/250 Vac 20 29 - Moural reset trip on increasing, 15A, 125/250 Vac 20 20 - Low level (div contact, 15A, 125/250 Vac 20 20 - Low level (div contact, 15A, 125/250 Vac 20 20 - Low level (div contact, 15A, 125/250 Vac 20 21 - Hormitically sealed writch, general purpose, 11A, 125/250 Vac 20 22 - Low level (div contact, 15A, 125/250 Vac 20 23 - Low level (div contact, 15A, 125/250 Vac 20 24 - Hormitically sealed writch, general purpose, 11A, 125/250 Vac 20				Example:	T4	20	T05	027	XNH	75/205F
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20 - Narrow deathand as, 15A, 152/520 Vac 21 - Ammonia service, 5A, 125/250 Vac 22 - Hermetically sealed, narrow deathand, 5A, 125/250 Vac 23 - Heary dity, ac 22A, 125/250 Vac 24 - General purpose, 15A, 125/250 Vac 25 - Heary dity, Gi, 0A, 125 Vac or dc. 15A HP, 125 Vac or d 25 - Heary dity, Gi, 0A, 125 Vac or dc. 15A HP, 125 Vac or d 26 - Manual reset trip on increasing, 15A, 125/250 Vac 28 - Manual reset trip on increasing, 15A, 125/250 Vac 29 - Manual reset trip on increasing, 15A, 125/250 Vac 20 - Manual reset trip on increasing, 15A, 125/250 Vac 20 - Manual reset trip on increasing, 15A, 125/250 Vac 20 - Manual reset trip on increasing, 15A, 125/250 Vac 20 - Manual reset trip on increasing, 15A, 125/250 Vac 20 - Manual reset trip on increasing, 15A, 125/250 Vac 20 - Manual reset trip on increasing, 15A, 125/250 Vac 20 - Manual reset trip on increasing, 15A, 125/250 Vac 20 - Manual reset trip on increasing, 15A, 125/250 Vac 20 - Manual reset trip on increasing, 15A, 125/250 Vac 20 - Manual reset trip on increasing, 15A, 125/250 Vac 20 - Manual reset trip on increasing, 15A, 125/250 Vac 20 - Manual reset trip on increasing, 15A, 125/250 Vac 20 - Manual reset trip on increasing, 15A, 125/250 Vac 21 - Dual harmetically sealed switch, general purpose, 11A, 125/250 Vac 22 - Dual sealed environment proof, 15A, 125/250 Vac 23 - Dual harmetically sealed switch, general purpose, 11A, 125/250 Vac 24 - Dual general purpose, 15A, 155/250 Vac 25 - Tore Mount 26 - Dual ammotically sealed switch, general purpose, 11A, 125/250 Vac 27 - 28 ' Manual reset (and Manual A, 126/250 Vac 27 - 28 ' Manual reset (and Manual A, 126/250 Vac 27 - 28 ' Manual reset (and Manual A, 126/250 Vac 27 - 28 ' Manual reset (and Manual A, 126/250 Vac 27 - 28 ' Manual reset (and Manual A, 126/250 Vac 27 - 28 ' Manual reset (and Manual A, 126/250 Vac 27 - 28 ' Manual reset (and Manual A, 126/250 Vac 27 - 28 ' Manual reset (and Manual A, 126/250 Vac 27 - 28 ' Manual reset (and Manual A, 126/250 Vac 27 - 28 ' Ma	T7 - Explo	osion-proof enclosure	e NEMA 3, 4, 7 & 9, IP66							
21 - Ammonia service, 5.4, 125/250 Vac 22 - Hermetically sealed, arrow deadbard, 5.4, 125/250 Vac 23 - Hearry duty ea, 224, 125/250 Vac 24 - General purpose, 154, 125/250 Vac 25 - Haary duty dot, 10A, 125 Vac or dc, 14H P, 129 Vac or dc 26 - Saaled anwirenantip pool, 15A, 125/250 Vac 27 - Hight Immerature 300°F, 15A, 125/250 Vac 28 - Manual reset trip on increasing, 15A, 125/250 Vac 29 - Manual reset trip on increasing, 15A, 125/250 Vac 29 - Manual reset trip on increasing, 15A, 125/250 Vac 29 - Manual reset trip on increasing, 15A, 125/250 Vac 29 - Manual reset trip on increasing, 15A, 125/250 Vac 29 - Manual reset trip on increasing, 15A, 125/250 Vac 29 - Manual reset trip on increasing, 15A, 125/250 Vac 20 - Increasing assed writch, poid contacts, 1A, 125/250 Vac 20 - Variable deabad, 15A, 125/250 Vac 20 - Variable deabad, 15A, 125/250 Vac 20 - Uul general purpose, 15A, 125/250 Vac 21 - Dual hermetically sealed writch, poid contacts, 1A, 125/250 Vac 15 - Bij d Remote Moout 1	Switch E	lements, UL/CSA L	isted (1 SPDT)							
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2e - Sealed environment proof, 15A, 125/250 Vac 27 - High temesture 3007, 15A, 125/250 Vac 28 - Manual reset trip on increasing, 15A, 125/250 Vac 29 - Manual reset trip on increasing, 15A, 125/250 Vac 29 - Manual reset trip on increasing, 15A, 125/250 Vac 20 - Marnal reset trip on increasing, 15A, 125/250 Vac 20 - Marnal reset trip on increasing, 15A, 125/250 Vac 20 - Marnal reset trip on increasing, 15A, 125/250 Vac 20 - Marnal reset trip on increasing, 15A, 125/250 Vac 20 - Marnal reset trip on increasing, 15A, 125/250 Vac 20 - Marnal y sealed switch, gole contacts, 1A, 125 Vac 20 - Marnal y sealed switch, gole contacts, 1A, 125/250 Vac 20 - Dual alarde environment proof, 15A, 125/250 Vac 20 - Dual alarde environment proof, 15A, 125/250 Vac 20 - Dual alarde environment proof, 15A, 125/250 Vac 20 - Dual almentically sealed switch, gareral purpose, 11A, 125/250 Vac 20 - Dual almentically sealed switch, gareral purpose, 11A, 125/250 Vac 20 - Dual hermetically sealed switch, gareral purpose, 11A, 125/250 Vac 20 - Dual hermetically sealed switch, gareral purpose, 11A, 125/250 Vac 20 - Dual hermetically sealed switch, gareral purpose, 11A, 125/250 Vac 20 - Dual hermetically sealed switch, gareral purpose, 11A, 125/250 Vac 20 - Dual hermetically sealed switch, gareral purpose, 11A, 125/250 Vac 20 - Dual hermetically sealed switch, gareral purpose, 11A, 125/250 Vac 20 - Dual hermetically sealed switch, gareral purpose, 11A, 125/250 Vac 20 - Dual hermetically sealed switch, gareral purpose, 11A, 125/250 Vac 20 - Dual hermetically sealed switch, gareral purpose, 11A, 125/250 Vac 20 - Dual hermetically sealed switch, gareral purpose, 11A, 125/250 Vac 20 - Direct Mount Length <u>5 - Remote Mount</u> 20 - <u>7 - 2 W</u> NA <u>0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 </u>				or dc						
27 - High temerature 300°F, 15A, 125/250 Vac 29 - Manual reset trip on Increasing, 15A, 125/250 Vac 29 - Manual reset trip on decreasing, 15A, 125/250 Vac 31 - Low level (gold) contacts, 15A, 125 Vac 32 - Hermetically sealed switch, gold contacts, 1A, 125 Vac 30 - Variable dead band, 15A, 125/250 Vac 42 - Hermetically sealed switch, gold contacts, 1A, 125 Vac 40 - Variable dead band, 15A, 125/250 Vac 42 - Hermetically sealed switch, gold contacts, 1A, 125 Vac 40 - Dual sealed environment proof, 15A, 125/250 Vac 40 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 40 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 40 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 40 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 40 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 40 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 40 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 40 - Z - Z - Z + Z + M 40 - Z + Z + Z + M 40										
28 - Manual reset trip on increasing, 15A, 125/250 Vac 29 - Manual reset trip on increasing, 15A, 125/250 Vac 31 - Low level (gold) contacts, 15A, 125 Vac 32 - Memetically sealed switch, general purpose, 11A, 125/250 Vac 5A, 30 Vdc 32 - Memetically sealed switch, gold contacts, 1A, 125 Vac 30 - Low level (gold) contacts, 1A, 125/250 Vac ULCSA Listed Dual (2 SPC) Vac 01 - Low level (gold) contacts, 1A, 125/250 Vac ULCSA Listed environment proof. 15A, 125/250 Vac 02 - Dual all proper trip of 15A, 125/250 Vac 03 - Dual high termp. 300°F, 15A, 125/250 Vac 04 - Dual general purpose, 15A, 125/250 Vac 05 - Dual all proper trip of, 15A, 125/250 Vac 05 - Dual all proper trip of, 15A, 125/250 Vac 05 - Dual all proper trip of, 15A, 125/250 Vac 05 - Dual all proper trip of, 15A, 125/250 Vac 05 - Dual all proper trip of, 15A, 125/250 Vac 05 - Dual all proper trip of tr	-		, ,							
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31 - Low level (gold) contacts, 15A, 125 Vac 22 - Hermetically sealed switch, general purpose, 11A, 125/250 Vac 5A, 30 Vdc 42 - Hermetically sealed switch, gold contacts, 1A, 125 Vac 50 - Variable dead band, 15A, 125/250 Vac 10/LCSA Listed Dual (2 SPD) 61 - Dual narrow deadband, 15A, 125/250 Vac 62 - Dual sealed environment proof. 15A, 125/250 Vac 63 - Dual high temp, 300°F, 15A, 125/250 Vac 64 - Dual general purpose, 15A, 125/250 Vac 65 - Dual ammonia service, 5A, 125/250 Vac 64 - Dual general purpose, 15A, 125/250 Vac 65 - Dual ammonia service, 5A, 125/250 Vac 67 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 68 - Dual hermetically sealed switch, general purpose, 15A, 125/250 Vac 70 - Dual low level gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch, general purpose, 15A, 125/250 Vac 71 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac Thermetically sealed switch, general purpose, 15A, 125/250 Vac Thermetically sealed switch, general purpose, 15A, 125/250 Vac Thermetically sealed switch, general purpose, 15A, 125/250 Vac Thermetically sealed switch general purpose, 15A, 125/250 Vac Thermetically sealed switch general purpose, 15A, 125/250 Vac <										
32 - Hermetically sealed switch, gold contacts, 1A, 125 Vac 42 - Hermetically sealed switch, gold contacts, 1A, 125 Vac 50 - Variable deal band, 15A, 125/250 Vac 61 - Dual arrow deadband, 15A, 125/250 Vac 62 - Dual sealed environment proof, 15A, 125/250 Vac 63 - Dual hight pem, 300°F, 15A, 125/250 Vac 64 - Dual general purpose, 15A, 125/250 Vac 65 - Dual annonia service, 5A, 125/250 Vac 65 - Dual annonia service, 5A, 125/250 Vac 65 - Dual annonia service, 5A, 125/250 Vac 67 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac, 5A, 30 Vdc 70 - Dual low level gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 71 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 71 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 71 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 71 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 71 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 72 - 230 72 - 230 72 - 24 Na 027 - 2 ³⁴ 027 - 2 ³⁴ 027 - 2 ³⁴ 026 - 3 ' 2 ³⁶ 027 -										
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50 - Variable dead band, 15A, 125/250 Vac UL/CSA Listed Dual (2 SPDT acting as DPDT) 61 - Dual narrow deadband, 15A, 125/250 Vac 62 - Dual sealed environment proof, 15A, 125/250 Vac 63 - Dual high temp. 300°F, 15A, 125/250 Vac 64 - Dual general purpose, 15A, 125/250 Vac 65 - Dual ammonia service, 5A, 125/250 Vac 66 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 67 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 67 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 71 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 75 - Siglid Remote Mount T05 - 5' T05 T05 T06 T07 T08 - Siglid Remote Mount T09 T25 - 26' Buib Length Selection Direct Mount Length 027 040 - 4'										
UL/CSA Listed Dual (2 SPDT acting as DPDT) 61 - Dual narrow deadband, 15A, 125/250 Vac 62 - Dual sealed environment proof, 15A, 125/250 Vac 63 - Dual high temp, 300°F, 15A, 125/250 Vac 64 - Dual general purpose, 15A, 125/250 Vac 65 - Dual ammonia service, 5A, 125/250 Vac 67 - Dual hemetically sealed switch, narrow dead band, 5A, 125/250 Vac 67 - Dual hemetically sealed switch, general purpose, 11A, 125/250 Vac 67 - Dual hemetically sealed switch general purpose, 11A, 125/250 Vac 67 - Dual hemetically sealed switch gold contacts, 1A, 125/250 Vac 70 - Dual low level gold contacts, 1A, 125/250 Vac 71 - Dual hemetically sealed switch gold contacts, 1A, 125/250 Vac 75 - S T05 71 - Dual hemetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hemetically sealed switch gold contacts, 1A, 125/250 Vac 72 - 20' 73 - S 70 - 20' 72 - 20' 72 - 2%' NA 000 - 4' 027 740 - 4' 026 - 6' 040 - 4' 027 741 - 12' 10' Thermode Mount Length (Consult factory for custom or longer stem lengths) <tr< td=""><td></td><td></td><td></td><td>ac</td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>				ac						
61 - Dual sealed environment proof, 15A, 125/250 Vac 62 - Dual sealed environment proof, 15A, 125/250 Vac 63 - Dual high temp, 300°F, 15A, 125/250 Vac 64 - Dual general purpose, 15A, 125/250 Vac 65 - Dual ammonia service, 5A, 125/250 Vac 67 - Dual hermetically sealed switch, narrow dead band, 5A, 125/250 Vac 67 - Dual hermetically sealed switch, narrow dead band, 5A, 125/250 Vac 67 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 71 - Dual low level gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac Thermal System Selection Direct Mount T05 - 5' T05 T05 - 15' T05 - 10' T15 - 15' T20 - 20' T25 - 25' Bulb Length Selection Direct Mount Length Val - 24' Val - 24' <td></td> <td>, ,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		, ,								
62 - Dual sealed environment proof, 15A, 125/250 Vac 63 - Dual premeral purpose, 15A, 125/250 Vac 64 - Dual general purpose, 15A, 125/250 Vac 65 - Dual hermetically sealed switch, narrow dead band, 5A, 125/250 Vac 67 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 68 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 70 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 72 - Davia hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 72 - Davia hermetically sealed switch gold contacts, 1A, 125/250 Vac 73 - Dial hermetically sealed switch gold contacts, 1A, 125/250 Vac 70 - Direct Mount 70 - Zi			v ,							
63 - Dual high temp. 300°F, 15A, 125/250 Vac 64 - Dual general purpose, 15A, 125/250 Vac 65 - Dual ammonia service, 5A, 125/250 Vac 67 - Dual hermetically sealed switch, narrow dead band, 5A, 125/250 Vac, 5A, 30 Vdc 70 - Dual low level gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac 72 - 20' 72 - 25' 8ub Length Selection 00- 6' 4/4' 00- 2' 7/5'		,	,							
64 - Dual general purpose, 15A, 125/250/480 Vac, ½A, 125 Vdc, ¼A, 250 Vdc 65 - Dual armonia service, SA, 125/250 Vac 67 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 68 - Dual low level gold contacts, 1A, 125/250 Vac 70 - Dual low level gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac 71 - Dual hermetically sealed switch, gold contacts, 1A, 125/250 Vac Thermal System Selection Direct Mount TS - Rigid Remote Mount T05 - 5' T05 710 - 10' T15 - 15' T20 - 20' T28 - 25' Bulb Length Selection Direct Mount Length "S' Dimension Thermowell "U" Dimension (ordered separately) Q27 - 2½% NA 040 - 4' 2½' 050 - 6' 4½' 080 - 9' 7½' 120 - 12' 10½' Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 027 030 - 3' 2½' 120 - 12' 10½' Remote Mount Bulb Length (Consuit factory for custom or longer stem lengths)			, ,							
65 - Dual ammonia service, 5A, 125/250 Vac 67 - Dual hermetically sealed switch, narrow dead band, 5A, 125/250 Vac 68 - Dual hermetically sealed switch general purpose, 11A, 125/250 Vac, 5A, 30 Vdc 70 - Dual low level gold contacts, 1A, 125/250 Vac, 5A, 30 Vdc 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac Thermal System Selection Direct Mount T05 - 5' T05 T05 - 10' T15 - 15' T20 - 20' T25 - 25' Bubl Length Selection Direct Mount Length "S" Dimension Thermoselly sealed switch, 10'' Dimension (ordered separately) 027 - 234'' 040 - 4'' 2½'' 090 - 6' 4½'' 090 - 6' 4½'' 020 - 12'' 10½'' Remote Mount Bub Length (Consult factory for custom or longer stem lengths) 027 020 - 3'' 2½'' 030 - 3'' 2½'' Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X NH - Tagging SS NH Temperature Ranges (for all ranges, see table 2 on page 3) X		<u> </u>	,							
67 - Dual hermetically sealed switch, narrow dead band, 5A, 125/250 Vac 68 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac, 5A, 30 Vdc 70 - Dual low level gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac Thermal System Selection Direct Mount T05 - 6' T05 - 5' T05 - 10' T15 - 15' T20 - 20' T25 - 25' Bulb Length Selection Direct Mount Length "S" Dimension Thermowell "U" Dimension (ordered separately) 027 - 2%' NA 0260 - 6' 4½' 090 - 9' 7½' Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 027 030 - 3' 2½' Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X_ NH - Tagging SS NH		0 1 1 /	, , ,	25 Vac, 1/4A, 250 Vac						
68 - Dual hermetically sealed switch, general purpose, 11A, 125/250 Vac, 5A, 30 Vdc 70 - Dual low level goid contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac Thermal System Selection Direct Mount T5 - Rigid Remote Mount T00 - 10' T15 - 15' T20 - 20' T25 - 25' Bulb Length Selection Direct Mount Length "S" Dimension Thermowell "U" Dimension (ordered separately) 027 - 2%' 040 - 4' 2%' 090 - 9' 7½' 120 - 12' 10%' 120 - 12' 10%' 090 - 9' 7½' 120 - 12' 10%' 090 - 9' 7½' 120 - 12' 10%' 090 - 9' 7½' 120 - 12' 10%' 120 - 12' 10%' 030 - 3' 2½' Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3)		,	,							
70 - Dual low level gold contacts, 1A, 125/250 Vac 71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac Thermal System Selection Direct Mount TS - Rigid Remote Mount T05 - 5 T05 T0 - 10' T15 - 15' T20 - 20' T25 - 25' Bulb Length Selection Direct Mount Length "S" Dimension Thermoell "U" Dimension (ordered separately) 027 2¾" 04" 2½" 060- 6" 4½" 090 - 9" 7½" 080- 3" 2½" 090 - 9" 7½" 080- 3" 2½" 090 - 9" 7½" 030 - 3" 2½" 030 - 3" 2½" 030 - 3" 2½" 050 - 3" 2½" 050 - 3" 2½" 050 - 3" 2½" 050 - 3" 2½" 050 - 3" 2½" </td <td></td> <td></td> <td>, ,</td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			, ,	,						
71 - Dual hermetically sealed switch gold contacts, 1A, 125/250 Vac Thermal System Selection Direct Mount T05 - Rigid Remote Mount T05 - 5° T05 T10 - 10° T15 - 15° T20 - 20° T25 - 25° Bulb Length Selection Direct Mount Length "S" Dimension Thermowell "U" Dimension (ordered separately) 027 - 2¾" NA 040 - 4" 2½" 060 - 6° 4½" 090 - 9° 7½" T20 - 12° 10½" Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 027 030 - 3° 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X NH - Tagging SS NH				A, 125/250 Vac, 5A, 30 Vdc						
Thermal System Selection Direct Mount TS - Rigid Remote Mount T05 - 5' T05 T10 - 10' T15 - 15' T20 - 20' T25 - 25' Bulb Length Selection Direct Mount Length "S' Dimension Thermowell "U" Dimension (ordered separately) 027 - 2¾" NA 040 - 4" 2½" 060 - 6" 4½" 090 - 9" 7½" 120 - 12' 10½" Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 027 030 - 3" 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X			, ,	05/050 \/						
Direct Mount TS - Rigid Remote Mount T05 - 5' T05 T10 - 10' T15 - 15' T20 - 20' T25 - 25' Bulb Length Selection Direct Mount Length "S" Dimension 027 - 23¼" NA 027 - 23¼" NA 060 - 6' 4½" 090 - 9' 7½" 120 - 12'' 10½" Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 027 030 - 3' 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X_ NHH - Tagging SS NH Temperature Ranges (for all ranges, see table 2 on page 3) NH			switch gold contacts, 1A, 1	25/250 Vac						
TS - Rigid Remote Mount T05 - 5' T05 T10 - 10' T15 - 15' T20 - 20' T25 - 25' Bulb Length Selection Direct Mount Length "S" Dimension Thermowell "U" Dimension (ordered separately) 027 - 2%" 040 - 4" 2½" 060 - 6" 4½" 090 - 9" 7½" 120 - 12" 10½" Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 027 030 - 3" 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X NH+ Tagging SS NH		•								
Remote Mount 105 - 5' T05 105 - 10' T05 T10 - 10' T05 T15 - 15' T20 - 20' T20 - 20' T25 - 25' Bulb Length Selection Direct Mount Length "S" Dimension Thermowell "U" Dimension (ordered separately) 027 - 2%" NA 027 - 2%" NA 0027 - 2%" O27 040 - 4" 2½" 060 - 6" 4½" 090 - 9" 7½" 120 - 12" 10½" Remote Mount Bulb Length (Consut factory for custom or longer stem lengths) 030 - 3" 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) NH - Tagging SS NH										
T05 - 6' T05 T10 - 10' T T15 - 15' T T20 - 20' T T25 - 25' Bulb Length Selection Direct Mount Length 027 027 - 2%" NA 060 - 6" 4½" 090 - 9" 7½" 120 - 12" 10½" Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 001 030 - 3" 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X	· · ·									
T10 - 10' T15 - 15' T20 - 20' T25 - 25' Bulb Length Selection Direct Mount Length 027 - 23¼" NA 040 - 4" 2½" 060 - 6" 4½" 090 - 9" 7½" 120 - 12" 10½" Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 030 - 3" 030 - 3" 2½" Options (if choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X NH - Tagging SS NH		Mount								
T15 - 15' T20 - 20' T25 - 25' Bulb Length Selection Direct Mount Length "S" Dimension 027 - 294" NA 027 - 294" 040 - 4" 2½" 060 - 6" 4½" 090 - 9" 7½" 120 - 12" 10\/2" Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 030 - 3" 030 - 3" 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) NH - Tagging SS Temperature Ranges (for all ranges, see table 2 on page 3)							T05			
T20 - 20' T25 - 25' Bulb Length Selection Direct Mount Length "S" Dimension Thermowell "U" Dimension (ordered separately) 027 - 23%" NA 040 - 4" 2½" 060 - 6" 4½" 090 - 9" 7½" 120 - 12" 10½" Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 030 - 3" 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X										
T25 - 25' Bulb Length Selection Direct Mount Length "S" Dimension Thermowell "U" Dimension (ordered separately) 027 - 234" 040 - 4" 2½" 060 - 6" 4½" 090 - 9" 7½" 120 - 12" 10½" Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 030 - 3" 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X NH - Tagging SS NH										
Bulb Length Selection Direct Mount Length "S" Dimension Thermowell "U" Dimension (ordered separately) 027 - 294" NA 027 040 - 4" 2½" 060 - 6" 4½" 090 - 9" 7½" 010 12" 10½" 120 - 12" 10½" 10½" 10½" 10½" 030 - 3" 2½" 10½"										
Direct Mount Length										
"S" Dimension Thermowell "U" Dimension (ordered separately) 027 - 2¾" NA 027 040 - 4" 2½" 027 060 - 6" 4½" 027 090 - 9" 7½" 010 120 - 12" 10½" 010" Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 030 - 3" 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X NH - Tagging SS NH		•							_	
027 - 2¾" NA 027 040 - 4" 2½" 000 060 - 6" 4½" 000 090 - 9" 7½" 000 120 - 12" 10½" 000 Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 030 - 3" 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X NH - Tagging SS NH Temperature Ranges (for all ranges, see table 2 on page 3) NH	Direct M								_	
040 - 4" 2½" 060 - 6" 4½" 090 - 9" 7½" 120 - 12" 10½" Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 030 - 3" 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X NH - Tagging SS NH Temperature Ranges (for all ranges, see table 2 on page 3) NH				ension (ordered separate	ely)				_	
060 - 6" 4½" 090 - 9" 7½" 120 - 12" 10½" Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 030 - 030 - 3" 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X NH - Tagging SS NH Temperature Ranges (for all ranges, see table 2 on page 3) NH								027		
090 - 9" 7½" 120 - 12" 10½" Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 030 - 3" 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) NH - Tagging SS NH Temperature Ranges (for all ranges, see table 2 on page 3)										
120 - 12" 10½" Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 030 - 3" 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X NH - Tagging SS NH Temperature Ranges (for all ranges, see table 2 on page 3)										
Remote Mount Bulb Length (Consult factory for custom or longer stem lengths) 030 - 3" 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X NH - Tagging SS NH Temperature Ranges (for all ranges, see table 2 on page 3)										
030 - 3" 2½" Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X										
Options (If choosing an option(s) must include an "X") (for more options, see table 1 on page 3) X				om or longer stem lengt	hs)					
NH - Tagging SS NH Temperature Ranges (for all ranges, see table 2 on page 3) NH										
Temperature Ranges (for all ranges, see table 2 on page 3)			n(s) must include an "X")	(for more options, see tal	ble 1 on page 3	3)				
	NH - Tago	ging SS							NH	
75/205°F 75/205F	Tempera	ture Ranges (for all	ranges, see table 2 on pa	age 3)						
	75/205°F									75/205F

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Data Sheet



T4/T7 Series NEMA 4X, 7/9 Temperature Switches

TABLE 1 - OPTIONS											
Code					T4	Τ7			Notes		
BX	1/2 Male NPT bushing				•		•	Remote thermow	capillary to		
CH Chained cover				•		•					
CN	ATEX	TEX Directive 94/9 EC						•			
FP	Fungu	is proof				•		•			
FS	Factory adjusted setpoint				•		•				
JK	Left c	onduit connectio	n		•			Standard on T7. N/A with DPDT element on T4			
JL	3⁄4″ to 1	%" to ½" reducing bushing				•		•	Conduit	reducing bushing	
JM	Metric	electrical condu	conduit connection M20 x 1.5			•		•			
LE	6 foot leads on the micro switch					•		•			
NH	Taggir	ing SS				•		•			
NN	Paper	tag				•		•			
PJ	Pilot li	ight 24 VDC				•					
PK	Pilot li	t lights				•					
PM	3/4" sealed conduit connection with 16" lead wires					•		•			
RN	Range scale					•		•			
ТМ	2" pipe mounting bracket					•		•			
YW	316L \$	SS Housing	lousing					•			
C4	Certifi	ied cal chart		•		•					
C8	CSA approved					Standard on 400 Series					
K3 Terminal blocks						•	Terminal blocks standard with 700 dua switches				
	TABLE 2 - STANDARD TEMPERATURE RANGE SELECTION (For dual switch elements multiply by 1.6)										
	Nominal Range Maximum Temperature			Approximate Deadband Switch Element in °F							
۴		°C	° F ⁽²⁾	20, 26,	27	21, 24	l, 37		50	22	32, 42
-40 to	60	-40 to 16	400	1.0-2.	0	3.0-	8.0 1.5		-5.5	1.4-6.0	8.0-16.0
0 to 1	00	-20 to 40	400	1.5-3.0		5.0-1	2.0	2.2	-8.5	1.5-7.5	9.0-20.0
75 to 2	205	20 to 95	400	1.5-3.	5	8.0-1	6.0	2.5	-12.0	2.0-9.0	10.0-24.0
150 to	260	65 to 125	400	1.5-3.	0	5.0-1	2.0	2.2	-8.5	2.0-9.0	10.0-24.0
235 to	375	110 to 190	500	1.5-3.	5	5.0-1	2.0	2.5	-8.5	2.0-9.0	10.0-24.0
350 to \$	525 ⁽¹⁾	175 to 275	700	2.0-4.	5	8.0-1	6.0	3.2	-12.0	2.5-10.0	15.0-34.0
500 to 7	750(2)	260 to 400	900	4.0-8.	0	16.0-	30.0	7.2	-24.0	5.0-23.0	30.0-50.0

NOTES: (1) NA with 2¾" or 4" direct mount bulb length (2) Available with remote mount systems only

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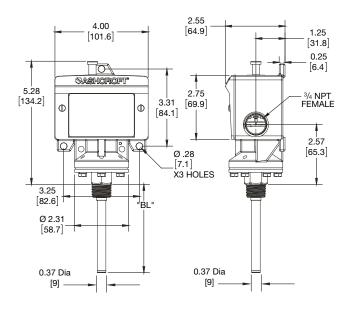


T4/T7 Series NEMA 4X, 7/9 Temperature Switches

DIMENSIONS in [] are millimeters

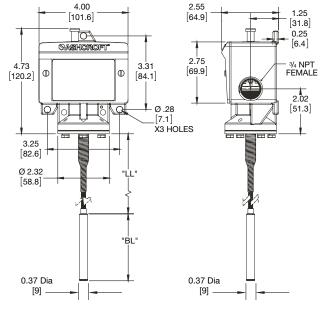
For reference only, consult Ashcroft for specific dimensional drawings

T4 Watertight enclosure Temperature switch - direct mount

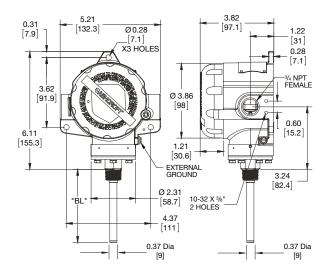


Temperature switch - remote mount

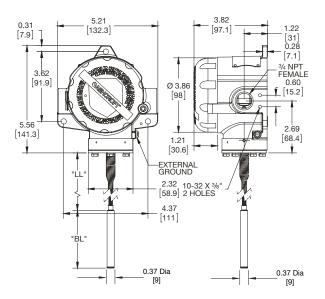
T4 Watertight enclosure



T7 Explosion proof enclosure Temperature switch - direct mount



T7 Explosion proof enclosure Temperature switch - remote mount



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