

### Rotating Ex d Limit Switch

#### Model: QT

The Rotating Limit Switch Box Assembly model QT is an accessory which enables remote and local valve position monitoring of BERMAD 400Y Torrent Deluge / Water Control Valves.

The low profile robust anodized and epoxy-coated aluminum housing makes it well-suited for use in corrosive, heavy wash down applications and harsh environments.

The limit switch box assembly is suitable for Zone 1 hazardous locations as per IEC/EC or Div. 1 to NEC/NEMA standards (see specification below). It is equipped with two SPDT type proximity switch sensors, hermetically-sealed, and activated by an internal magnetic target. The switch is equipped with Tungsten contacts, designed for moderate power applications and is electrically rated for 3 Amps at 125VAC or 240 VAC. The switch box incorporates a highly visible dual color visual position indicator.



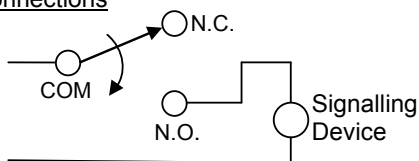
Installed on a BERMAD TORRENT Deluge Valve (for illustration only)



#### Specifications

- Switch Type: 2xProximity SPDT, Hermetically-sealed

##### Electrical Connections



- Electrical ratings: 3 A @ 125/220VAC, 100 W max, 2.0 W min
- Maximum voltage drop: 0.1 V @ 10 mA, 0.5 V @ 100 mA
- Contacts composition: Tungsten
- Enclosure protection ratings: IP 67, NEMA 4, 4X and 6
- Temperature rating: -40°C to 80°C (-40°F to 176°F)
- Approvals: IEC-Ex and ATEX certified for Category II 2G Ex d IIC T6  
Optional: Class I, Division 1, Groups A, B, C, D and Class II, Division 1, Groups E, F, G to NEC 500, NEMA 4,4X, 7, 9
- Connections: Switch box cable entries: 1x1/2" & 1x3/4" NPT

#### Materials of construction

- Housing: Epoxy-coated anodized aluminum
- Visual Position Indicator: Lexan® polycarbonate
- Elastomeric/seals: NBR
- Drive shaft: Stainless steel
- Drive bearing: Bronze, oil impregnated
- Fasteners: Stainless steel
- Wetted parts: Stainless steel 316

#### Optional Materials

- Housing: Stainless steel 316
- Wetted parts: Monel, Ni.Al.Bronze

Please contact Bermad for other available specifications  
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#### Major Parts and Features

- Enclosure optimized for environment**  
Suitable for use in various process environments
- Quick enclosure access**  
Screw-on vapor tight cover allows quick enclosure access, saving valuable maintenance and set-up time.
- Pre-wired and labeled terminal strip**  
Enables quick, convenient attachment of field wiring
- Maxx-Guard Proximity switches**  
Hermetically-sealed suitable for safe signaling
- Easy to adjust quick set cams**  
Touch and tune switch settings allows fast adjustments without the use of tools
- Dual shaft O-ring seals**  
Shaft O-rings seal the drive bearing from both external corrosives and internal contaminants.
- Drive bearing assures long cycle life**  
Oil impregnated bronze bearing maintains smooth operation and eliminates the potential for shaft seizure
- Clear Dual Color visual indication**  
Highly Visual indication of valve status

