

# ATX™ TCH Series Safety Flashlights

## Increased Safety. Halogen, Incandescent

ATEX:  
 Zone 1 and 2 - 21 and 22  
 II 2 GD  
 IP66 (TCH1)  
 IP66/68 (TCH2)

### Applications

- To provide maintenance staff with task specific portable lighting in Zone 1 hazardous areas.
- Ideal for persons requiring task specific portable lighting in refineries, oil and gas process and chemical plants.

### Features

- Type TCH1:
  - Luminescent switch facilitates locating flashlight in dark.
  - Can be used to transmit a Morse code.
  - Halogen version provides twice the lumen output of incandescent lamps.
  - Hook for hands free operation.
  - Uses R20 or LR20 batteries (not included).
  - Supplied with 1 lamp.
- Type TCH2:
  - Dual optics (one at the end and one on the side) permitting:
    - Focused beam for safe movement.
    - Wide angle side beam for task specific focused lighting.
  - Ergonomic design permits easy manipulation:
    - User can select one of the two beams with one hand.
  - Two beams can be switched on separately and not simultaneously.
  - Should one lamp fail, the second lamp will still provide illumination.
  - Flashlight is stable when placed upright on a horizontal surface.
  - Pocket clip allows for hands free work.
  - Luminescent ring allows easy locating of flashlight in dark.
  - Suspension hook for hands free use.
  - Uses 2 R20 or LR20 batteries (not included).
  - Supplied with one halogen lamp for main beam and one incandescent lamp for side beam.
  - Supplied with one special opening tool.

### Standard Materials

- Type TCH1:
  - Housing: shockproof and antistatic polyamide
  - Internal reflector: polished
  - Lens: polycarbonate
  - Hardware: stainless steel
  - Switch: luminescent
- Type TCH2:
  - Housing: black polycarbonate
  - Internal reflector: polished
  - Lens: polycarbonate
  - Hardware: stainless steel
  - Ring: luminescent

### ATEX Certifications and Compliances

- Certification Type: TCH1
  - Gas: Zones 1–2
    - Conforming to ATEX 94/9/CE: II 2 G
    - Type of Protection: Ex eib IIC
    - Temperature Class: T4
  - Dust: Zone 21-22
    - Conforming to ATEX 94/9/CE: II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: +95 °C (+203 °F)
    - Ambient Temperature: -20 °C ≤ Ta ≤ +40 °C (-4 °F ≤ To ≤ +104 °F)



TCH1



TCH2

- CE Declaration of Conformity: 50259
- ATEX Certificate: LCIE 03 ATEX 6064
- Index of Protection according EN/IEC 60529: IP66
- Certification Type: TCH2
  - Gas: Zones 1–2
    - Conforming to ATEX 94/9/CE: II 2 G
    - Type of Protection: Ex eib IIC
    - Temperature Class:
      - Incandescent PR6:T4 [+55°C (+131 °F)]
      - Krypton PR102: T4 [+55°C (+131 °F)]
      - Halogen HPR52: T4 [+40°C (104 °F)] - T3 [+55°C (+131 °F)]
      - Halogen HPR01: T4 [+55°C (+131 °F)]
  - Dust: Zone 21-22
    - Conforming to ATEX 94/9/CE: II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: +130 °C (+266 °F)
  - Ambient Temperature: -20 °C ≤ Ta ≤ +55 °C (-4 °F ≤ To ≤ +131 °F)
  - CE Declaration of Conformity: 50238
  - ATEX Certificate: LCIE 02 ATEX 6229
  - Index of Protection according EN/IEC 60529: IP66/68 (25m)

### Other Certification

- Certification Type: TCH1 / TCH2
  - INMETRO Certificate: BVC11.0419 (TCH1) and BVC11.0420 (TCH2) ①

① Inmetro certification available on special request only. Contact your local sales representative for more information.

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### Ordering Information:

Number of lamps (included)	Type of Lamps (not included)	Number of Battery Cells	Weight kgs (lb)	Volume dm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
1	Incandescent — 2.5 V – 0.3 A	2	0.4 (0.88)	3.4 (207.6)	<b>TCH12C</b>
1	Incandescent — 3.7 V – 0.3 A	3	0.4 (0.88)	3.4 (207.6)	<b>TCH13C</b>
1	Halogen — 2.8 V – 0.5 A	2	0.4 (0.88)	3.4 (207.6)	<b>TCH12H</b>
2	Incandescent — 2.5 V – 0.3 A Halogen — 2.8 V – 0.5 A	2	0.4 (0.88)	1.9 (116.0)	<b>TCH22M</b>

### Spare Lamps for Replacement (Lamp Holder P13, 5S)

Lamp Type	Rating	Catalog Number
Incandescent (PR6)	2.5 V – 0.3 A	<b>TCHL25C</b>
Incandescent (PR7)	3.7 V – 0.3 A	<b>TCHL37C</b>
Halogen (HPR01)	2.8 V – 0.5 A	<b>TCHL28H</b>

# ATX™ TCH Series Safety Flashlights

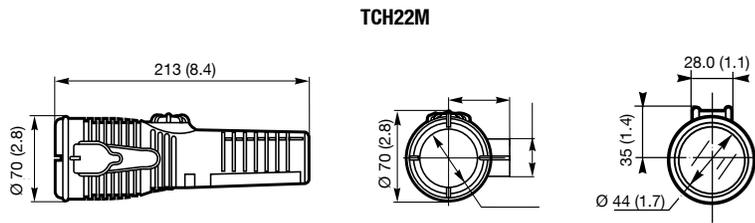
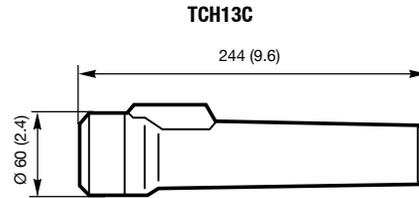
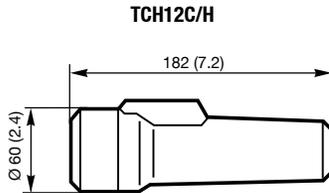
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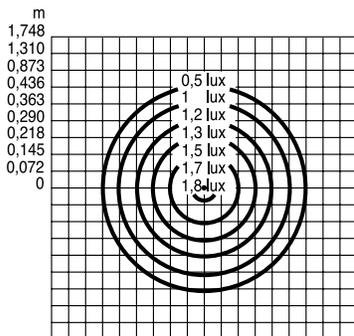
Appleton®

INCANDESCENT/HALOGEN/PORTABLE: ATEX INCREASED SAFETY

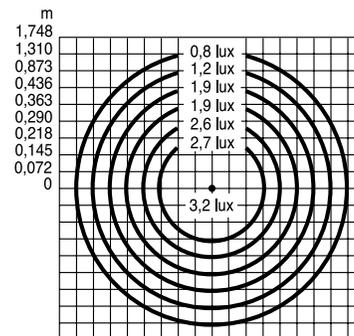
### Dimensions in Millimeters (Inches)



### Photometric Data



Catalog Number TCH12C (at 25 meters) Incandescent



Catalog Number TCH13C (at 25 meters) Incandescent