

Lighting: Portable Lighting

TCH Series: Safety Flashlights – Increased Safety



TCH1 (Single Lens)



TCH2 (Dual Lens)



Compliances:

ATEX - IEC:



Zone 1 & 2 – 21 & 22	ATEX	II 2 GD	IEC	CE
Ex eib IIC	T4	Ex tD A21	T95°C (TCH1) T130°C (TCH2)	IP66 (TCH1) IP66/68 (TCH2)

Operating Temperature:

-20°C to +40°C (TCH1)				
-20°C to +55°C (TCH2)				

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II 2 GD

ATEX / IEC

IP66 (TCH1) IP66/68 (TCH2)

LIGHTING

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.

Material:

Type TCH1:

- Housing made from shockproof and antistatic polyamide.
- Polished internal reflector.
- Polycarbonate lens.
- Stainless steel hardware.
- Luminescent switch.

Type TCH2:

- Black polycarbonate housing.
- Polished internal reflector.
- Polycarbonate lens.
- Stainless steel hardware.
- Luminescent ring.



TCH1



TCH2

Ordering Information:

Number of Lamps	Type of Lamps (included)	Number of Battery Cells (not included)	Weight (kg)	Volume (dm ³)	Catalog Number	Old Catalog Number	Pack
1	Incandescent 2.5 V – 0.3 A	2	0.4	3.4	TCH12C	095102	2
1	Incandescent 3.7 V – 0.3 A	3	0.4	3.4	TCH13C	095103	2
1	Halogen 2.8 V – 0.5 A	2	0.4	3.4	TCH12H	095105	2
2	Halogen 2.8 V – 0.5 A and Incandescent 2.5 V – 0.3 A	2	0.4	1.9	TCH22M	095100	1

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II 2 GD

ATEX / IEC

IP66 (TCH1) IP66/68 (TCH2)

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

Type of lamp		Catalog Number	Old Catalog Number	Pack
Incandescent (PR6)	2.5 V – 0.3 A	TCHL25C	095236	10
Incandescent (PR6)	3.7 V – 0.3 A	TCHL37C	095235	10
Halogen (HPR01)	2.8 V – 0.5 A	TCHL28H	095239	10

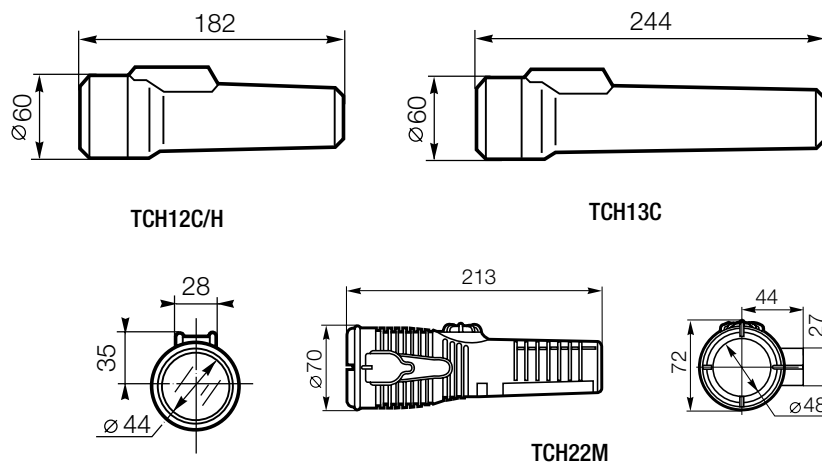
Compliances:

Hazardous Area	Gas		Dust	
Certified Type	TCH1	TCH2	TCH1	TCH2
Zones	1–2		21–22	
Conforming to ATEX 94/9/CE	CE 0081 II 2 G		CE 0081 II 2 D	
Symbol of Protection ATEX	Ex eib IIC		Ex tD A21	
Symbol of Protection IEC				
T Rating	T4	See Table	N.A.	
Surface Temperature	N.A.		95°C	130°C
Ambient Temperature	-20°C ≤ Ta ≤ +40°C	-20°C ≤ Ta ≤ +55°C	-20°C ≤ Ta ≤ +40°C	-20°C ≤ Ta ≤ +55°C
CE Declaration of Conformity	50259	50238	50259	50238
ATEX Certificate	LCIE 03 ATEX 6064	LCIE 02 ATEX 6229	LCIE 03 ATEX 6064	LCIE 02 ATEX 6229
IEC Certificate	LCIE Ex 03.010	LCIE Ex 02.024	LCIE Ex 03.010	LCIE Ex 02.024
Other Certifications	–	–	–	–
Ingress Protection (solid and liquid)	IP66	IP66/68 (25m)	IP66	IP66/68 (25m)

Standards:

Ex Standards	EN / IEC 60079-0; 60079-7; 60079-11; 61241-0; 61241-1
Product Standards	EN / IEC 60598-1
Other Standards	EN / IEC 60529 (IP)

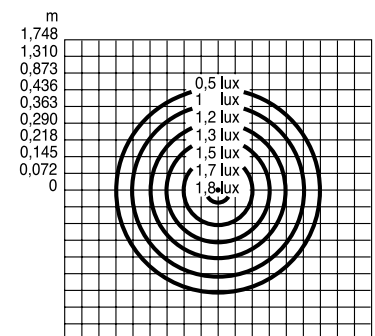
Dimensions (mm):



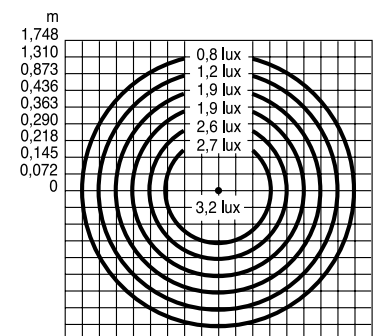
T Rating Table

Type of Lamp	For -20°C ≤ Ta ≤ +40°C	For +40°C ≤ Ta ≤ +55°C
Incandescent PR6	T4	T4
Krypton PR102	T4	T4
Halogen HPR52	T4	T3
Halogen HPR01	T4	T4

Photometric Data:



Catalog Number TCH12C (at 25 meters)
Incandescent



Catalog Number TCH13C (at 25 meters)
Incandescent