



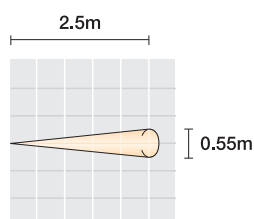
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New - Mining  
and Dust Approval

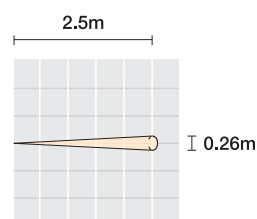
# WOLF MINI AND MICRO TORCHES



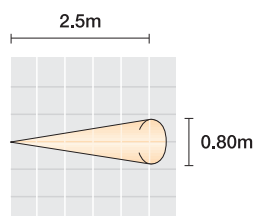
- ATEX and IECEx Certified
- T4/T5 temperature class
- Ultra small size
- Lightweight, ergonomic design
- Proven impact resistance
- Single handed switching
- Switch protection shroud
- Integral pen style pocket clip
- IP67 water and dust tight
- Gas and Dust Approval
- Group I Mining Approval



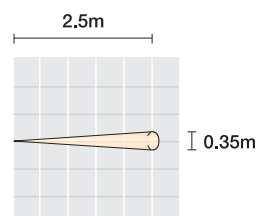
M-10 8 lux (13°) @ 2.5m



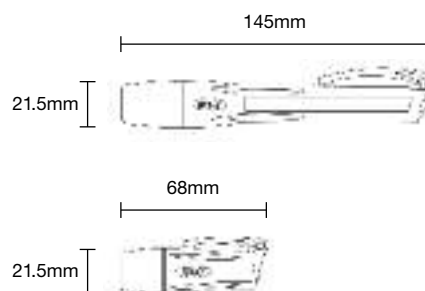
M-20 100 lux (6°) @ 2.5m



M-40 15 lux (18°) @ 2.5m



M-60 45 lux (8°) @ 2.5m



IECEx

The Wolf range of Mini and Micro Torches, certified for use in potentially explosive atmospheres, use high-tech light sources to give impressive performance with a compact size. Designed for easy storage in a pocket, they are the perfect torch for any application where a small size is critical.

All four models are compliant with the 94/9/EC ATEX 'Explosive Atmospheres' Directive and certified to IECEx for use in potentially explosive gas, vapour, mist or dust atmospheres, where a T4 or T5 temperature class permits. Additionally, all models are approved to Group I for use in mining applications.

The three models with LED light sources; the M-10 Micro, the M-40 Mini and M-60 Mini are approved as

Category 1 equipment for use in Zones 0, 1 and 2, whilst the M-20 Xenon Mini is approved as Category 2 equipment for use in Zones 1 and 2.

The M-10 Micro has a single white 5mm 'Nichia' LED light source and is powered by four alkaline LR44 'button cells', giving an impressive beam with a two hour duration from a very compact size.

The M-20 Mini uses a Xenon filament bulb powered by two LR03 'AAA' cells, giving an excellent narrow beam of light with good range and up to 2.5 hours duration. The M-40 Mini has a cluster of three white 5mm 'Nichia' LEDs, and the M-60 Mini uses a single 1 watt Luxeon LED giving a remarkable light output; both products are powered by three alkaline LR1 'N' cells giving up to ten hours of usable light.

The Mini and Micro Torch Range have an ergonomic design and are constructed from high quality thermoplastic resin, with excellent impact and chemical resistance. The polycarbonate lens has been set-back within the lens ring to minimise risk of damage. All models have a lanyard hole, an integral pocket clip for secure retention and to prevent roll on a flat surface, and a push-button for single handed switching, which is shrouded to guard against accidental operation. Additionally all models are certified IP67, sealed against water and dust ingress.

Mini and Micro torches are supplied with cells, the M-10 Micro is supplied with a neck cord for added convenience.

Wolf Mini and Micro Torch Range					
Technical Specification					
Product reference		M-10	M-20	M-40	M-60
Product description		LED Micro Torch	Xenon Mini Torch	LED Mini Torch	1 watt LED Mini Torch
Code	Industrial	Ex ia IIC T5 (Ta=50°C) tD A20 IP67 T80°C	Ex ib IIC T4 tD A21 IP67 T80°C	Ex ia IIC T4 (Ta=50°C) tD A20 IP67 T80°C	
	Mining	Ex M1 Ex ia I IP67	Ex M2 Ex ib I IP67	Ex M1 Ex ia I IP67	
Apparatus standards		EN60079-0, EN50020 / IEC60070-0, IEC60079-11			
Type of protection		“ia/ib” Intrinsic Safety			
Area of classification (gas)		Zones 0, 1 & 2	Zones 1 & 2	Zones 0, 1 & 2	
Temp. classification (gas)		T5	T4		
Ambient temperature		-20°C to + 50°C	-20°C to + 40°C	-20°C to + 50°C	
Area of classification (dust)		Zones 20, 21 & 22	Zones 21 & 22	Zones 20, 21 & 22	
Max surface temperature (dust)		80°C	80°C	80°C	
Certification		Baseefa06ATEX0084 IECEx BAS 06.0023			
Enclosure		Impact resistant thermoplastic, electrostatic non-hazardous			
Lens		Polycarbonate			
Beam type		Medium Spot	Narrow Spot	Medium Spot	
Light source:	Pt. no.	–	M-201	–	–
	Type	1x5mm LED White (Nichia)	Xenon filled filament bulb	3 x 5mm LED White (Nichia)	1 x 1Watt LED White (Luxeon)
	Rating	–	2.3V 0.3A	–	1 Watt
	Output	18 cd	15 lm	3 x 18 cd	45 lm
	Life	25,000 hrs	30 hrs	25,000 hours	
Power source:	Pt. no.	M-102 (4 pack)	M-202 (2 pack)	M-402 (3 pack)	
	Type	LR44 primary cells to IEC60086	LR03 primary cells to IEC60086	LR1 primary cells to IEC60086	
	Volts	4 x 1.5V	2 x 1.5V	3 x 1.5V	
Light duration		up to 2 hrs	up to 2.3 hrs	up to 10 hrs	
Ingress protection		IP67 to EN60529:1992			
Weight (incl. cells)		25g	60g		

Note: All information has been gathered under laboratory conditions, the user must regard the values given as approximate.  
The Company reserves the right to alter product specifications without prior notice.



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