



Flashing Light Ex-PEX 2015, Ex-PEX 2010, Ex-PEX 2005



- the flashing lights of the Ex-PEX series were developed for the use in explosive atmospheres, zone 1, they are suitable for applications in industry and shipping
- they are designed to convey a warning and supply information
- their omnidirectional light dispersment, reflections, sharp contrasts, and intensive direct and indirect radiation make them unmistakably recognizable
- with their vertical-axis housing, they are designed for permanent installation at a fixed location



Protective system



Ambient temperature*



Storage temperature



Relative humidity

* Ex-PEX2005 max. +55 °C

Explosion protection:

Types of protection	EN 50018 "d" flameproof enclosure for light housing and cable glands EN 50019 "e" with enhanced safety for the terminal chamber
Explosion protection	II 2G EEx de IIC T6 / II 2G EEx d IIC T6 / II 2G EEx d IIB T6 ("d" without cable)
Test authorities	PTB Braunschweig
Certificate of conformity	PTB 03 ATEX 1022
Category (zone classification)	2G (zone 1) / 3G (zone 2)

Optical data:

	Ex-PEX 2015	Ex-PEX 2010	Ex-PEX 2005
Alarm range	Ø 7.5 m	Ø 5 m	Ø 2.5 m
Warning range	Ø 30 m	Ø 20 m	Ø 10 m
Lens colours	transparent, white, amber, red, green, blue		
Flashing frequency	approx. 1 Hz		
Flashing power	15 joules	10 joules	5 joules
Service life of flash tube	light emission reduced to 70% after approx. 8 000 000 flashes		
Duty cycle	100%		

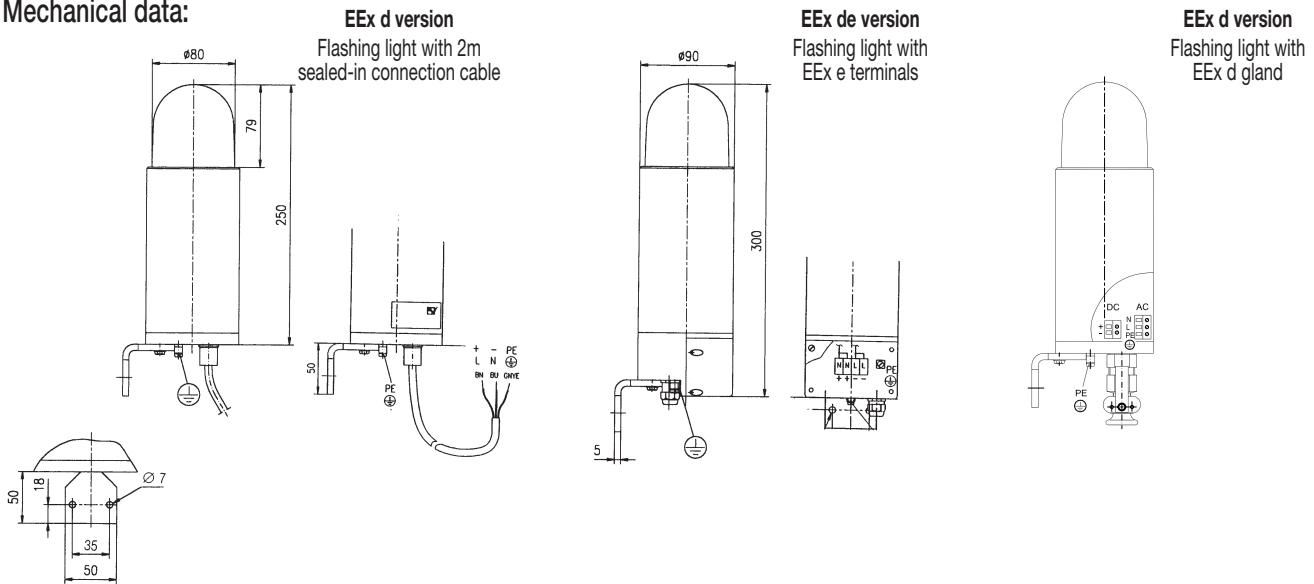
Electrical data: AC 50Hz/60Hz

Rated voltage	Electrical data	Ex-PEX 2015	Ex-PEX 2010	Ex-PEX 2005
240 V	Voltage range Rated current Rated power Primary fuse (T)	0.22 A 58 VA 0.5 A	216V...264V 0.11 A 25 VA 0.315 A	0.055 A 13.5 VA 0.2 A
230 V	Voltage range Rated current Rated power Primary fuse (T)	0.24 A 61 VA 0.5 A	207V...253V 0.11 A 25 VA 0.315 A	0.055 A 12.7 VA 0.2 A
110 V	Voltage range Rated current Rated power Primary fuse (T)	0.40 A 48 VA 0.8 A	99V...121V 0.24 A 25 VA 0.5 A	90V...135V 0.11 A 12 VA 0.315 A
42 V	Voltage range Rated current Rated power Primary fuse (T)	0.40 A 23 VA 0.8 A	38V...46V 0.35 A 15 VA 0.8 A	35V...50V 0.18 A 7.6 VA 0.4 A
24 V	Voltage range Rated current Rated power Primary fuse (T)	- - - -	22V...26V 0.62 A 15 VA 1.25 A	20V...30V 0.23 A 6 VA 0.5 A

DC

Rated voltage	Electrical data	Ex-PEX 2015	Ex-PEX 2010	Ex-PEX 2005
80 V	Voltage range Rated current Rated power Primary fuse (T)	- - - -	64V...96V 0.2 A 16 W 0.5 A	0.105 A 8.5 W 0.25 A
60 V	Voltage range Rated current Rated power Primary fuse (T)	0.35 A 23 W 0.8 A	50V...72V 0.25 A 15 W 0.63 A	0.125 A 7.5 W 0.315 A
48 V	Voltage range Rated current Rated power Primary fuse (T)	0.4 A 22 W 0.8 A	40V...60V 0.33 A 16 W 0.8 A	0.15 A 8 W 0.315 A
24 V	Voltage range Rated current Rated power Primary fuse (T)	0.75 A 20 W 1.6 A	18V...30V 0.65 A 16 W 1.6 A	0.27 A 6.5 W 0.63 A
12 V	Voltage range Rated current Rated power Primary fuse (T)	- - - -	10V...15V 1.25 A 15 W 2.5 A	0.51 A 6.5 W 1.25 A

Mechanical data:



Mechanical data	Ex-PEX 2015	Ex-PEX 2010	Ex-PEX 2005
Housing material	corrosion-resistant aluminium (bronze or stainless steel 316 on request)		
Lens material	makrolon (polycarbonate)		
Colour	similar to RAL 1018 zinc yellow / base black		
Terminal	max. 2.5 mm ² (version with EEx de terminal)		
Cable gland	2 x M20 x 1.5 (version with EEx de terminal) 1 x M20 x 1.5 (version with EEx d terminal)		
Power supply cord	H05VV, 0.75 mm ² , 2 m long (version with sealed-in connection cable)		
Weight	EEx de version approx. 2.2 kg / EEx d version approx. 1.9 kg		

Additional data:

Climatic data			
Operating temperature	-20 °C (-4 °F) ... T6 (max. +40 °C (+104 °F)) GL version: -20 °C (-4 °F) ... T6 (max. +45 °C (+113 °F)) (Ex-PEX 2015 only 24 V DC)		
Storage temperature	-40 °C (-40 °F) ... +70 °C (+158 °F)		
Relative humidity	90%		
Protective system	IP65		
Mounting position	in upright position, lens at top, 90°	in upright position, lens at top, min. 75°	irrespective of position
Accessories	EEx e junction box No. 381 070 00110 (version with sealed-in connection cable)		
Approvals	Germanischer Lloyd, GOST		
Sample order	Model:	Ex-PEX 2010	
	Voltage:	230V AC	
	Colour of lens:	amber	
	Version:	with EEx e terminals	

Declaration of manufacturer

We herewith declare that the explosion-proof flashing lights with model designations

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were developed and manufactured to comply with the section 5.1.2 of EN 50014.

This declaration is issued in accordance with the following regulations and standards:

94/9 / EC	CE-Conformity		
EN 50014	Electrical devices for hazardous environments – General regulations		
EN 50018	Flameproof enclosure “d”	EN 842	Machine safety
EN 50019	Enhanced safety “e”		– visual danger signals
EN 60073	Encoding principles for display units and control components	EN 60529	IP protection systems
DIN 5037	Photometric evaluation of projectors		
EN 60598	Flashing lights		
EN 60664-1	Dimensioning of clearances and creepage distances		
DIN IEC 60038	IEC voltages		
89/336/EEC	“Electromagnetic compatibility”		

The flashing light Ex-PEX is approved for use in hazardous environments, zone 1 and 2.