NAWSTWO WDROŻENIE WSPARCIE TECHNICZNE KONCEPCJA PROJEKT WYKONAWSTWO WDROŻENIE



EMHB 1 Ex ... /EN

EMHB 1 EX ZONE 1, 21

Zones 1, 21 😣 II 2G Ex eb ib mb op is IIC T5 Gb 😔 II 2D Ex tb op is IIIC T95°C Db

for SPD version:

😣 II 2G Ex db eb ib mb op is IIC T5 Gb

😔 II 2D Ex tb op is IIIC T95°C Db

for HT version

😣 II 2G Ex eb ib mb op is IIC T4 Gb

😣 II 2D Ex tb op is IIIC T121°C Db

Description

EMHB 1 Ex luminaire is designed to illuminate, among others:

- industrial halls and spaces classified as zones 1, 2, 21 and 22 of the explosion hazard of dust, gases, vapors and mists of flammable liquids,
- auxiliary rooms with high dustiness with the possibility of splashes of water, i.e. boiler rooms, hydro junctions, baths, garages, shelters, warehouses in open and closed areas,
- workstation process lines, among others: chemical, petroleum, petrochemical, gas and wood industries, processing of loose mine, construction and food materials,
- places with increased temperature.

Technical characteristics

Parameter name	Value (unit)	
	198-277 VAC 198-250 VDC 50-60/0Hz - standard version	
Supply voltage	90-250 VAC 140-250VDC 50-60/0Hz - on request	
	90-277 VAC 140-250 VDC 50-60/0Hz - on request	
Power	40-160 W [1]±10%	
Power factor	PF ≥ 0.95 **	
Efficiency	160 lm/W	



EXPLOSION PROOF LUMINAIRES

CE

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Parameter name		/alue (unit)		
		eb ib mb op is IIC ‹ tb op is IIIC T95°		
	fo	r SPD variant:		
	🚯 ll 2G Ex di	o eb ib mb op is II(T5 Gb	
ATEX marking		tb op is IIIC T95°		
	for HT variant:			
	😣 ll 2G Ex eb ib mb op is llC T4 Gb			
	ⓑ Ⅱ 2D Ex tb op is ⅢC T121°C Db			
		mb op is IIC T5 G		
	Ex tb	op is IIIC T95°C Di)	
		SPD wariant:		
		ib mb op is IIC T5		
IECEx marking	Ex tb c	p is IIIC T95°C Db		
	fo	or HT variant		
	Ex eb ib mb op is IIC T4 Gb			
EU-type examination certificate	Ex tb op is IIIC T121°C Db			
number	OBAC 21 ATEX0134X			
IECEx Certificate number	IECEX OBAC 21.0002X			
	EN IEC 60079-0:2018 EN 60079-18:2015+A1:2017			
	EN 60079-18:2015+A1:2017			
Standards	EN 60079-28:2015			
	EN 60079-11:2012			
	EN 60079-31:2014			
Source of light	ultra-bright LED			
Color temperature	$4000K \pm 10\%$ as an option 3000K, 5000K, 6500K $\pm 10\%$)K ±10%	
	(other on request)			
Protection class		I		
Degree of protection	IP 66/67***		IK 10	
CRT	80 (othe	r on request) ±10 I		
	Ambient temperature	Power	Class Temperature	
F	-32°C do +60°C	40 - 80 W		
	-32°C do +55°C	81 - 120 W	T5 / T95°C	
Permissible ambient temperature***	-32°C do +50°C	121-160 W		
	-32°C do +75°C	40-50 W HT		
4	-32°C do +70°C	51-60 W HT	T4 / T121°C	
F	-32°C do +65°C	61-80 W HT	1	
Weight	6,3 kg			
External dimensions	Ø	380x125 mm		
Wire diameter	wire 0,2-6 mm ² / AWG 24-10			
Recommended tightening torque for	cord 0,2-4 mm ² / AWG 24-12 0,6-0,8 Nm			
terminal block screws				
Length of the stripped part of the wire	9 mm			



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[1] According to the table of execution types - point. 3.1; Rated power with a tolerance of \pm 5% ** At 230VAC and 160W luminaire power;

*** When using a cable gland with a lower IP or a narrower operating temperature range, the parameters of the entire luminaire are reduced - see point 8.2 in instruction manual

Design and operation

WYKONI

TECHNICZNE KONCEPCJA PROJEKT WYKONAWSTWO WDROŻENIE WSPARCIE TECHNICZNE KONCEPCJA PROJEKT

USEUGI GÓRNICTWO GAZOWNICTWO

TYPU HMC OŚWIETLENIE PRZEMYSŁOWE

GAZOWNICTWO PRODUKTY

PRODUKTY TYPU HMC OŚWIETLENIE PRZEMYSŁOWE USŁUGI GÓRNICTWO GAZOWNICTWO PRODUKTY TYPU HMC OŚWIETLENIE PRZEMYSŁOWE USŁUGI GÓRNICTWO GAZOWNICTWO PRODUKTY

NAWSTWO WDROŻENIE WSPARCIE TECHNICZNE KONCEPCJA PROJEKT WYKONAWSTWO WDROŻENIE WSPARCIE

PRODUKTY TYPU HMC OŚWIETLENIE PRZEMYSŁOWE USŁUGI GÓRNICTWO

NAWSTWO WDROŻENIE W SPARCIE TECHNICZNE KONCEPCJA PROJEKT WYKONAWSTWO WDROŻENIE W SPARCIE

OŚWIETLENIE PRZEMYSŁ

HMC

TYPU

PRODUKTY

TYPU HMC OŚWIETLENIE PRZEMYSŁ

WYKONI

TECHNICZNE KONCEPCJA PROJEKT

W SPARCIE

TECHNICZNE KONCEPCJA PROJEKT WYKONAWSTWO WDROŻENIE

- body aluminum alloy,
- back cover aluminum alloy,
- pressure ring aluminum alloy,
- toughened glass,
- · LED light module,
- as standard, the luminaire has two Ø20mm holes with a M20x1.5 cable gland and with an M20 stopping plug. Other configurations others on request,
- pass-through clamps enabling the use of wires from 1mm2 up to 4mm2,
- mounting eyelet,
- luminous flux adjustment via 1-10V or DALI interface according to versions.

Advantages

- solid, compact structure,
- simple, easy and quick assembly,
- · high resistance to industrial corrosive environment,
- · very high luminous efficiency,
- high-quality power supply and LED diodes,
- very high tightness IP66 / 67,
- resistant to UV radiation.

Options

Luminaire designation:

EMHB 1 Ex * / ** / *** / **** EN

* luminaire power,

- ** lighting unit,
- *** power supply unit,

**** additional information (e.g. a different type of painting, additional accessories).

		Lighting unit		Power supply unit					
Name	Power [W]	Color rendering		Optics	Control	Cable gland			Coating
						Quantity	Туре	Size	
		8 – 80	40 – 4000	None – standard glass	None – the fixture is equipped only with a power cord	None – one cable gland and stopping plug	None – nickel-plated brass cable gland	None - M20	None – RAL1003
		Variants on							
EMHB 1 Ex	40 60 80 120 140 150 160 40HT 80HT	7 – 70 9 – 90 	30 - 3000 35 - 3500 50 - 5000 65 - 6500 	G1 – milk glass G – other glass on request HE – increased efficiency	P – diagnostic connector 10V – analog dim- ming 1-10V P10V – diag- nostic con- nector and 1- 10V analog dimming SPD – over- voltage mod- ule	1 – one cable gland 2 – to cable glands 	CG – plastic cable gland NiCG – nickel-plated brass cable gland BCG – brass cable gland ACG – cable gland for armored cable H – housing with holes for cable glands	20 - M20 25 - M25 1" 3'4" specify the hole size	RAL **** KAT – catapho- resis



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Mounting method



Sample order code:

- EMHB 1 Ex 160/840 / P EMHB 1 Ex power 160W, LED matrix 4000K CRI 80, diagnostic connector, cable gland made of nickel-plated brass M20.
- EMHB 1 Ex 100/930 G1 / 2H25 / R WU JB EMHB 1 Ex power 100 W, LED matrix 3000K CRI 90, frosted glass, two holes for the M25 cable inlet (cable gland in accordance with the list in instruction manual), symmetrical reflector, universal mounting, additional connection box.

Accessories	
WU - universal tube mounting max fi 60	
WM - wall mounting	
R - symmetrical reflector	
AR - asymmetrical reflector	
WG - steel mesh	
JB - junction box (wym. 80x75x55 or 122x120x55)	

Distribution curve

EMHB 1 Ex	EMHB 1 Ex with symmetrical reflector



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NAWSTWO WDROŻENIE WSPARCIE TECHNICZNE KONCEPCJA PROJEKT WYKONAWSTWO W