Signal beacon
PF-IS-BM-*

- ATEX, IECEx and UKEX approval
- For use in Zone 0, 1, 2, 20, 21, 22 and mining applications
- Flashing or steady state options
- Recommended for fire, security and process control applications
- Degree of protection: IP 66
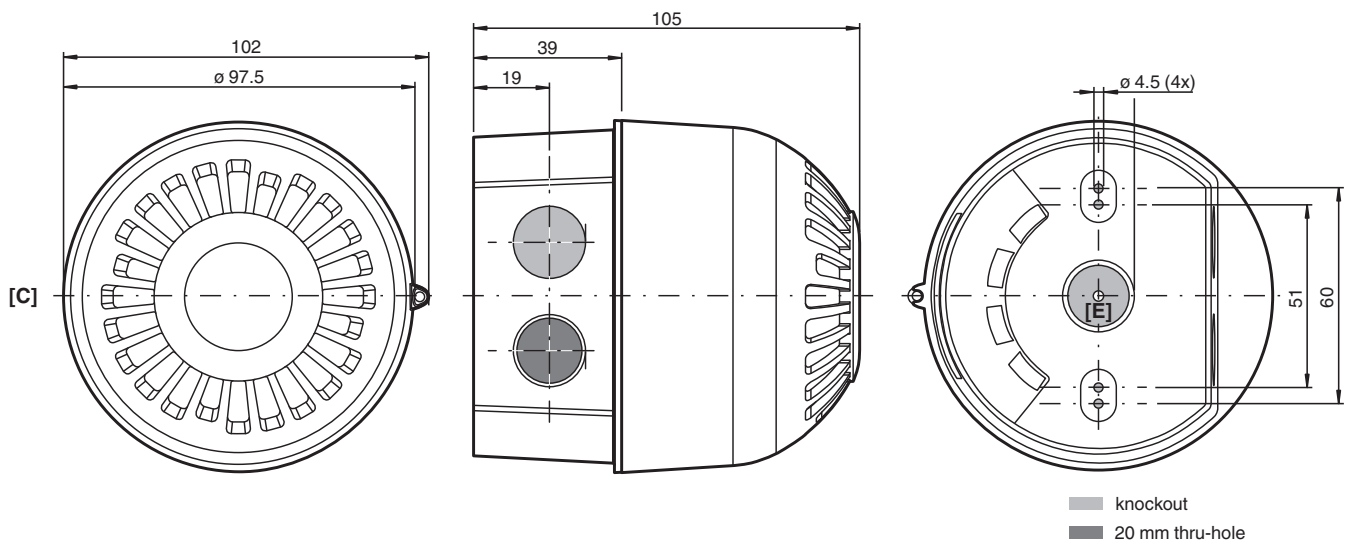- Diode polarized and end of line resistor compatible

Multi-purpose LED signal beacon, flashing or steady-state, type of protection Ex ia IIC

Function

The PF-IS-BM-* is a compact, intrinsically safe signal beacon with an array of 9 high intensity LEDs behind five different colored lens options. The versatile device can be used in above ground Group II applications including Zone 0 & Zone 20 as well as Group I mining applications. With the wide temperature range of -40 °C to +60 °C added to the degree of protection of IP66, this powerful device is suitable for many potentially explosion-hazardous areas. Flexibility is also a feature of this device and various mounting holes together with up to three thru-holes ensure that mounting and cabling is quick and easy.

Dimensions

knockout
20 mm thru-hole

Real values might differ slightly due to manufacturing tolerances.

Technical Data

Electrical specifications

Operating voltage	16 ... 28 V DC , via zener barrier or galvanic isolator
Operating current	15 mA @ 24 V DC max. - value measured with Zener barrier connected
Terminal capacity	0.5 ... 2.5 mm²
Function	flashing signal beacon LED
Lens color	red , amber , green , blue or clear
Flash mode	1 Hz flash 60 FPM or steady light high power
Luminous intensity	Dependent on head selected
Effective luminous intensity, measured	4.22 cd max. value measured with Zener barrier connected

Technical Data

Illuminant, type		array of 9x high-intensity LEDs
Mechanical specifications		
Enclosure cover		fully detachable
Cover fixing		Stainless steel screws
Degree of protection		IP66
Cable entry face C		
M20 quantity		1
M20 type		thru-holes
M20 info		without entry devices (ordered separately)
Cable entry face E		
M20 quantity		1
M20 type		knockout
Material		
Enclosure		Polycarbonate UL94 V2
Finish		RAL 3000 (red)
Seal		nitrile O-ring
Seal insert		Neoprene
Mass		0.22 kg
Grounding		Internal connection
Ambient conditions		
Ambient temperature		-40 ... 60 °C (-40 ... 140 °F)
Storage temperature		-40 ... 70 °C (-40 ... 158 °F)
Data for application in connection with hazardous areas		
EU-type examination certificate		ERO 24 ATEX 0014X
Marking		⟨Ex⟩ II 1 GD Ex ia IIC T5 Ga Ex ia IIIC T_{200} 85°C Da ⟨Ex⟩ I M1 Ex ia I Ma
Equipment		
Voltage	U_i	28 V max.
Current	I_i	93 mA max.
Power	P_i	660 mW max.
Internal capacitance	C_i	0 µF max.
Internal inductance	L_i	0 mH max.
International approvals		
IECEx approval		IECEx EMT 24.0011X
UKCA approval		EMA 24 UKEX 0006X
Further approvals		available on request
Conformity		
Degree of protection		EN 60529
CE marking		2829
UKCA marking		2503
General information		
Scope of delivery		device Instruction leaflet Gasket set Allen wrench anti-rotation grub screw
Supplementary information		EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.
Accessories		
Optional accessories		CG.PIDS1.M20.* SP.PE.M20.*

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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