

Warning Beacon

SOLED3

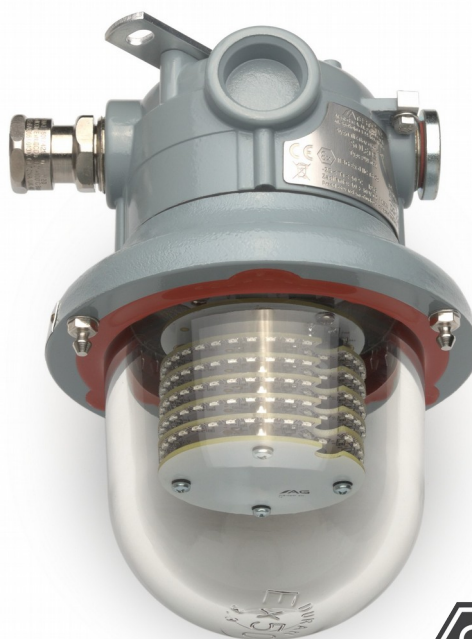
Product code: PW-081-A-X



Reliability



Integrity

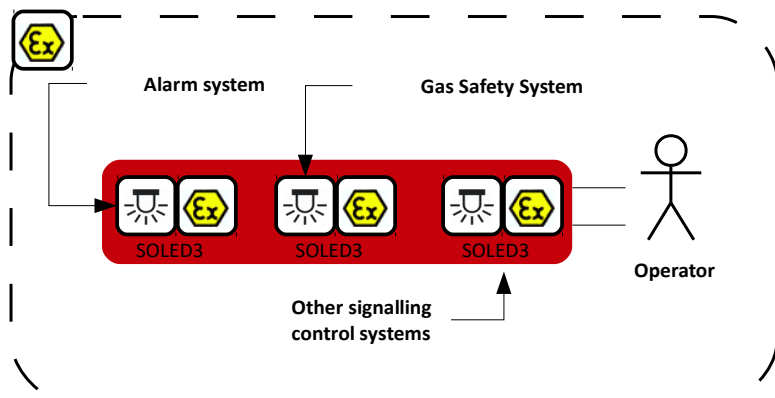


Information about the product

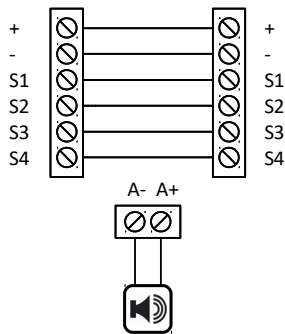
SOLED3 Warning Beacon is a device for optical signalling of hazards in potentially explosive areas, through lighting signals of different colours. SOLED3 uses three independently set and controlled lighting sections with very bright LED lights. Thank to such a construction, SOLED3 is a very universal warning beacon, which can be used in many industrial applications.

In Gas Safety Systems **Sigma Gas**, in potentially explosive zones, SOLED3 can play the role of a System Optical Signaller (for the following conditions: monitoring, alarm and failure). Thanks to an extended terminal block connectors and the ability of using 3 cable glands, it is possible to serially connect another device – optical or acoustic signaller.

Location and role of the Optical Signaller in Gas Safety System

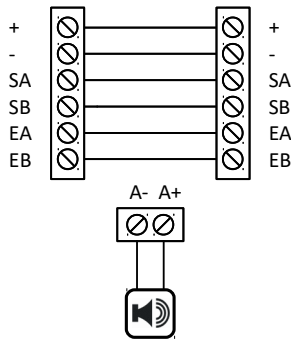


Voltage interface



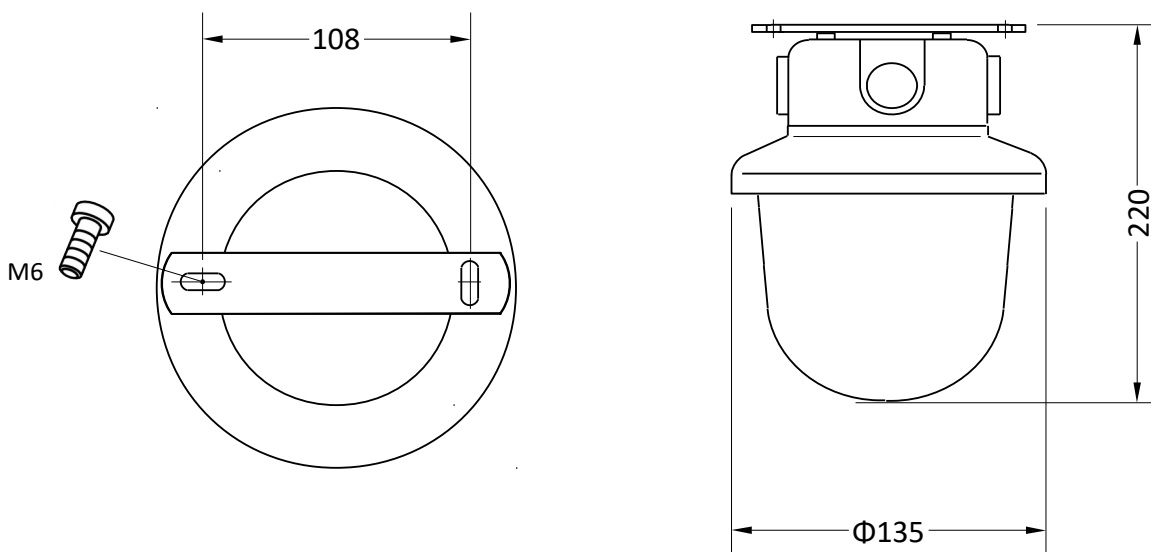
No.	Pin	Description
1	+	Positive line for power supply voltage
2	-	Negative line for power supply voltage
3	S1	Control input 1
4	S2	Control input 2
5	S3	Control input 3
6	S4	Control input 4
7	A+	Control output for a sounder – positive line
8	A-	Control output for a sounder – negative line

Digital interface




No.	Pin	Description
1	+	Positive line for power supply voltage
2	-	Negative line for power supply voltage
		System communication port SBUS. It is used to exchange data between appliances of the system Sigma Gas
3	SA	Signal line A
4	SB	Signal line B
		Communication port ExBUS. It is used to exchange data with external systems (ex. SCADA, PLC)
5	EA	Signal line A
6	EB	Signal line B
7	A+	Control output for a sounder – positive line
8	A-	Control output for a sounder – negative line

Dimensions



Technical specification

Power supply <ul style="list-style-type: none"> Voltage V_{cc} Power 	10 – 30 V $\overline{\text{---}}$ max 34 W (depending on the number of LED segments and sounder)	
<ul style="list-style-type: none"> Power consumption per module 	Red and yellow segment: 2 W Green, blue and white segment: 1.25 W Flash light module: 3 W Sounder: 24 W Standby power (all light and sound warning components are off): 0.5 W	
Environment	PW-081-A-X-G	Other versions
<ul style="list-style-type: none"> Ambient temperatures 	-30 – 55°C (special conditions of use)	-30 – 40°C
<ul style="list-style-type: none"> Humidity 	10 – 90% long term 0 – 99% short term	
ATEX	 II 3G Ex d IIC T6 Gc II 3D Ex t IIIC T85°C Dc	
IP	IP 65	
Time parameters of modulation and flash <ul style="list-style-type: none"> Period Filling modulation Flash time 	About 1.5 s about 50% about 50 ms	
Digital communication parameters <ul style="list-style-type: none"> Port SBUS <ul style="list-style-type: none"> Electric standard Communication protocol Port ExBUS <ul style="list-style-type: none"> Electric standard Communication protocol 	RS-485 Sigma BUS RS-485 Modbus ASCII, RTU, 4800 – 115200 bod	
Parameters of control and signalling inputs <ul style="list-style-type: none"> Deactivated Activated 	0 – 1 V 10 – 30 V	
Parameters of sounder outputs <ul style="list-style-type: none"> Voltage Current 	Such as given on the power terminals (terminals 1 and 2) maximum 0.8 A	
Optical signalling <ul style="list-style-type: none"> Light intensity 	LED maximum 60 Cd (depending on the number of modules and their colour)	
Protection class	III	
Cable glands <ul style="list-style-type: none"> Cable diameter range External thread 	4 – 12 mm ² , 10 – 16 mm ² M20 x 1.5	
Acceptable cables	0.5 – 2.5 mm ²	
Enclosure material	Aluminium, covering epoxy paint, glass cover	
Weight	1.6 kg	
Mandatory periodic inspection	Every six months	
Lifetime of consumables	From 2 to 10 years (depending on operating conditions and modules)	
Mounting	Directly to the ceiling or with mounting adapter PW-064-WM5 or PW-064-WM7	

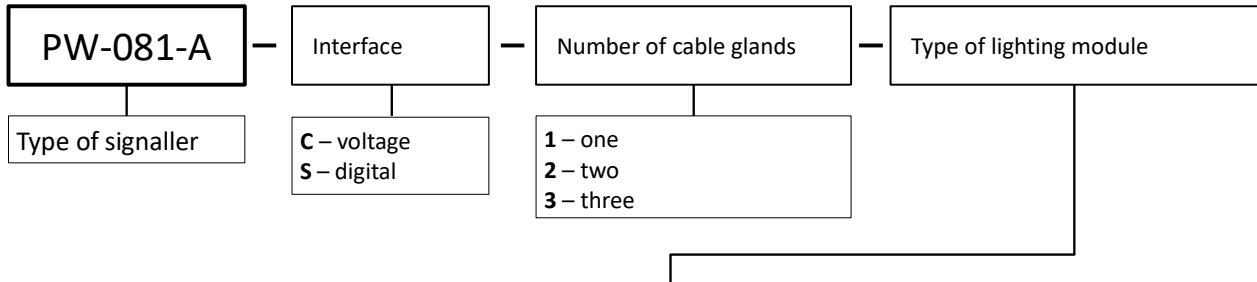
Accessories

Product code	Description
PW-064-WM5	Mounting Adapter WM5
PW-064-WM7	Mounting Adapter WM7 (ETH 12MD + SOLED3)

Product marking

Please refer to the following configurator to establish the product reference number for your order.

Product code	Description
PW-081-A-X	SOLED3 Warning Beacon



A – (PWS-051-X-R2-G1-R2-G1-R2*)	B – (PWS-051-X-R2-G1-R2-G1-R2-RF3*)
C – (PWS-051-X-Y3-Y3-G1-G1-R2-R2*)	D – (PWS-051-X-R2-R2-R2*)
E – (PWS-051-X-R1-R1-B2-B2*)	F – (PWS-051-X-Y2-Y2-Y2*)
G – (PWS-051-X-Y2-G1-Y2-G1-Y2*)	H – (PWS-051-X-R2-R2-R2-RF3*)
I – (PWS-051-X-Y1-Y1-R2-R2*)	J – (PWS-051-X-Y1-Y1-Y1-YF3*)
K – (PWS-051-X-G1-G1-R2-R2-R2*)	L – (PWS-051-X-R2-R2-R2*)

* internal designation in Atest Gaz

G – green Y – yellow R – red B – blue

Example: PW-081-A-C-2-B

Warning Beacon SOLED3, voltage interface, with two cable glands, green and red colour of shining, red flashlight.

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