

GAPS - Interface definition SAFETY PLATFORM SENSOR – SAFETY PLATFORM MEASURES

GAPS Railway platform station presence and level monitoring system SIL2

*Certified SIL2 by Certifer under the
reference EC_8092_0010*

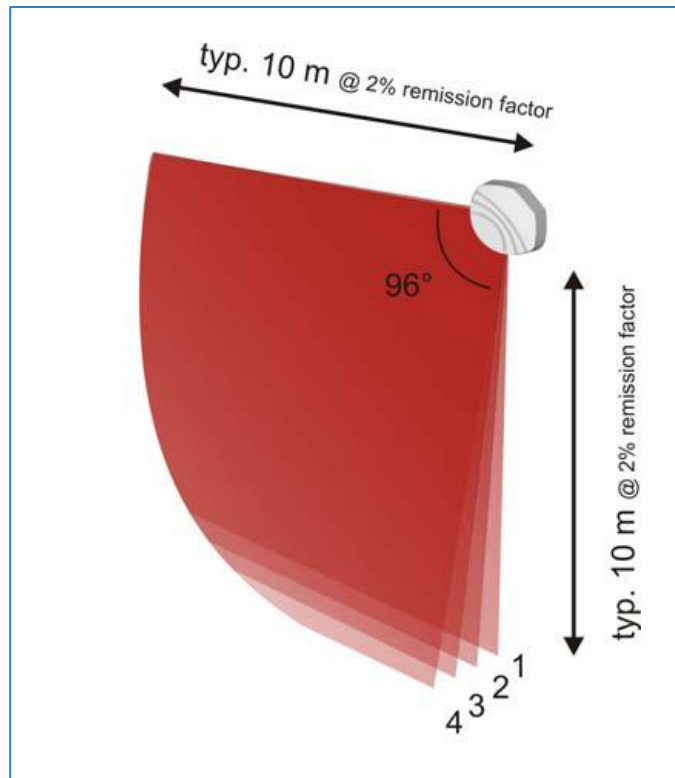
GAPS – Interface definition

DESCRIPTION SYSTEME

Ce système permet à l'utilisateur de basculer facilement entre deux modes de fonctionnement (mise en Y) d'un système existant dans le plus haut niveau de sécurité SIL4.

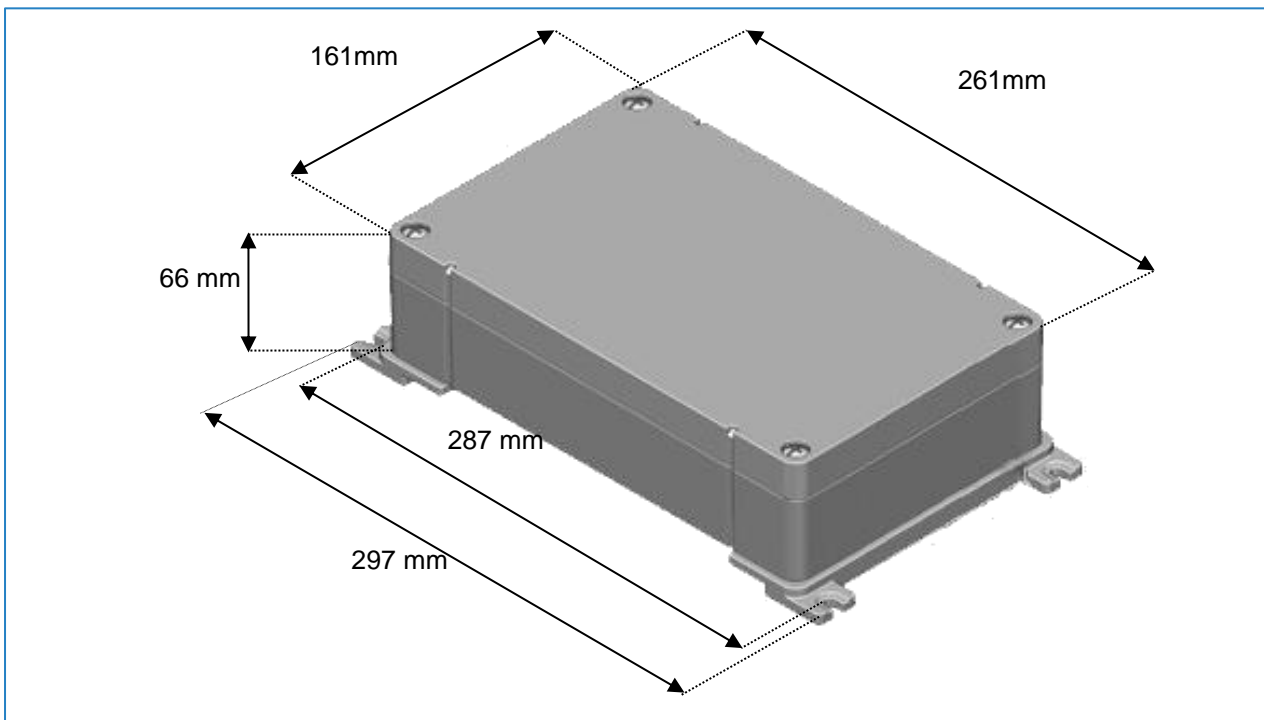
LASER SENSOR DESCRIPTION

- Laser Class 1, 905nm, power max 75W, power supply 24V (supply by CPU box)
- Protection IP65
- Vibrations : complaint with l'IEC60068-2-6
- Scan on 4 different plans :



MECHANICAL INTERFACE

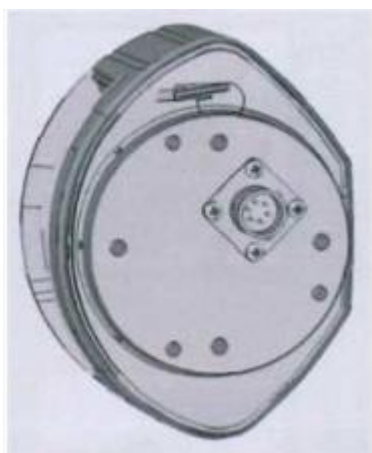
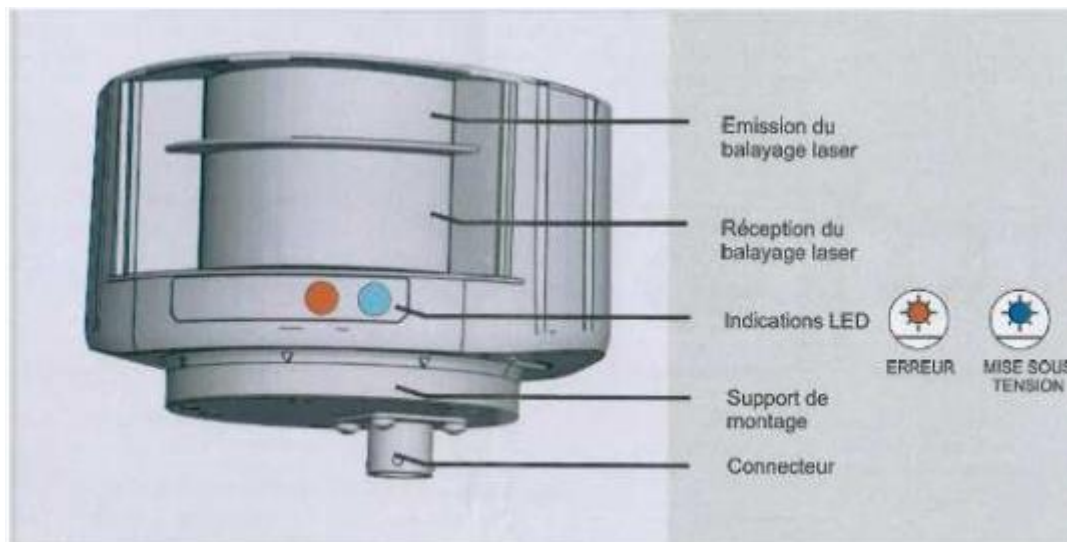
For CPU Box:



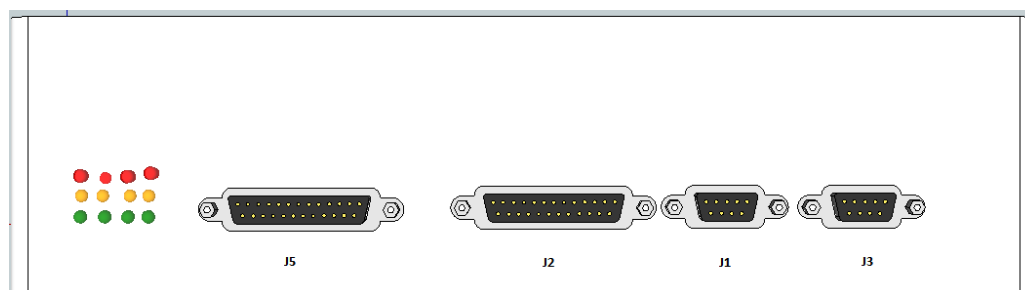
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For laser scanners:

Dimension are 125mm x 93mm x 70 mm



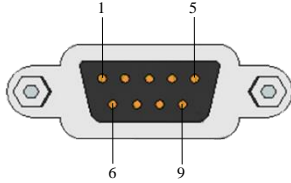
CPU connector:



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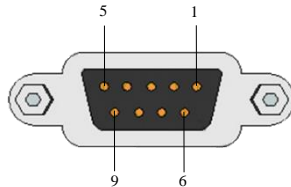
J3- DB9 plug (RS485):

Box side, front view	
Référence : HARTING – 09 66 162 6813	
1. TX N	Transmitted data -
2. TX P	Transmitted data +
3. RX P	Received data +
4. RX N	Received data -
5. Gnd	Masse
6. to 9.	Not connected



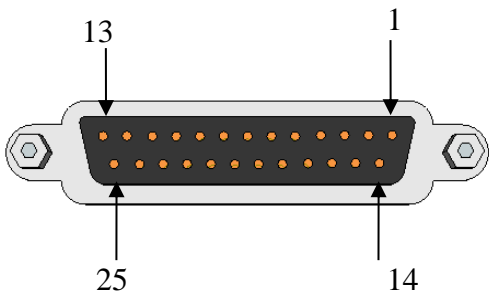
J1- DB9 receptacle (CAN):

Box side, front view	
Référence : HARTING – 09 66 152 6613	
1. GND	Common ground
2. GND	Common ground
3. GND	Common ground
4. GND	Common ground
5. GND	Common ground
6. C2L	Can P2 Low
7. C2H	Can P2 High
8. C1L	Can P1 Low
9. C1H	Can P1 High



J2- DB25 receptacle (Lasers):

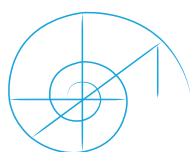
Box side, face view	
Référence : HARTING – 09 66 352 6613	
1. -	
2. -	
3. Gnd-iso	GND laser
4. 24G	24V Lasers P1
5. -	
6. Gnd-iso	GND laser
7. 24G	24V Lasers P1
8. -	
9. Gnd-iso	GND laser
10. 24D	24V Lasers P2
11. --	
12. Gnd-iso	GND laser
13. 24D	24V Lasers P2



14. ON_G	On/Off lasers P1
15. RX N 2P1	RX- Laser 2 P1
16. RX P 2P1	RX+ Laser 2 P1
17. ON_G	On/Off lasers P1
18. RX N 1P1	RX- Laser 1 P1
19. RX P 1P1	RX+ Laser 1 P1
20. ON_D	On/Off lasers P2
21. RX N 2P2	RX- Laser 2 P2
22. RX N 2P2	RX- Laser 2 P2
23. ON_D	On/Off lasers P2
24. RX N 1P2	RX- Laser 1 P2
25. RX N 1P2	RX- Laser 1 P2

CLEARSY

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