

FER*SIL*

GAPS

Opening and closing gap filler authorization
STI PMR Standard

*GAPS system,
Railway platform
station presence
and level monitoring
system SIL2
Interface definition*



GAPS INTERFACE DEFINITION

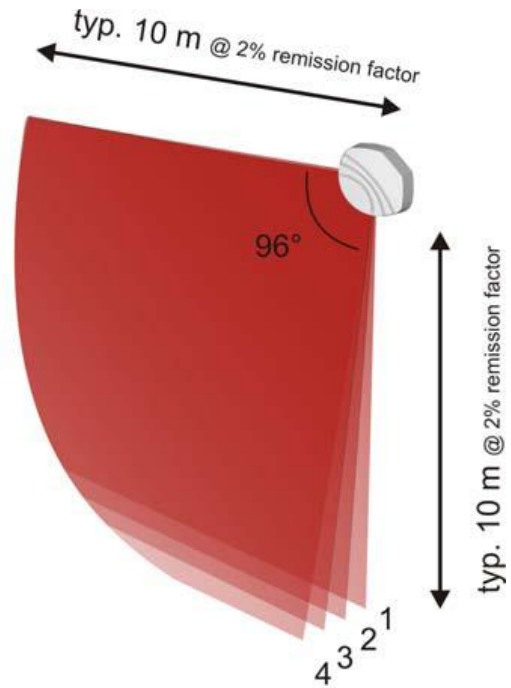
Clearsy System Engineering

GAPS



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

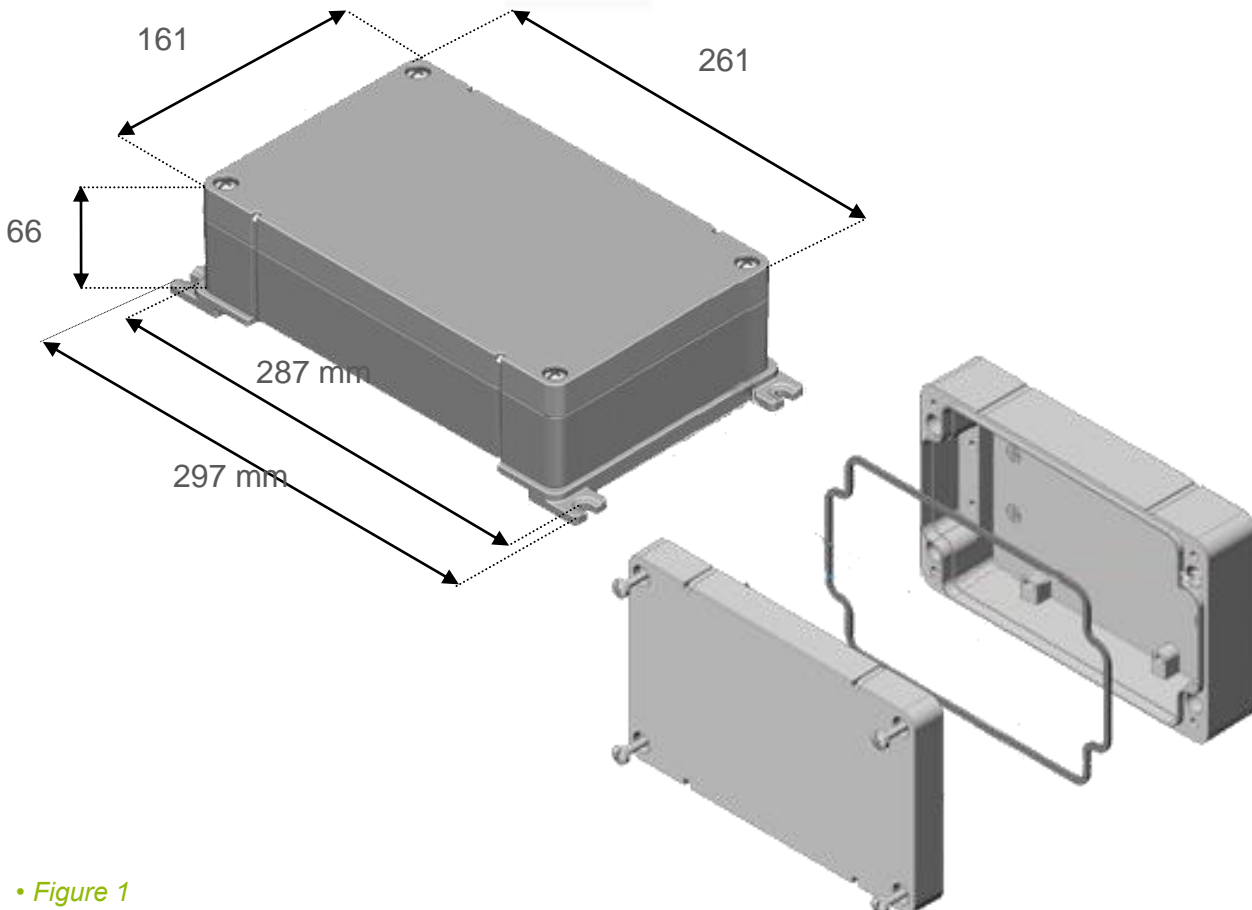


Scanner on 4 plans

TECHNICAL FEATURES

- For CPU Box : **Figure 1**
- For laser scanners : **Figure 2**
- Dimension are 125mm x 93mm x 70 mm
- CPU Connector : **Figure 3**

MECHANICAL INTERFACE

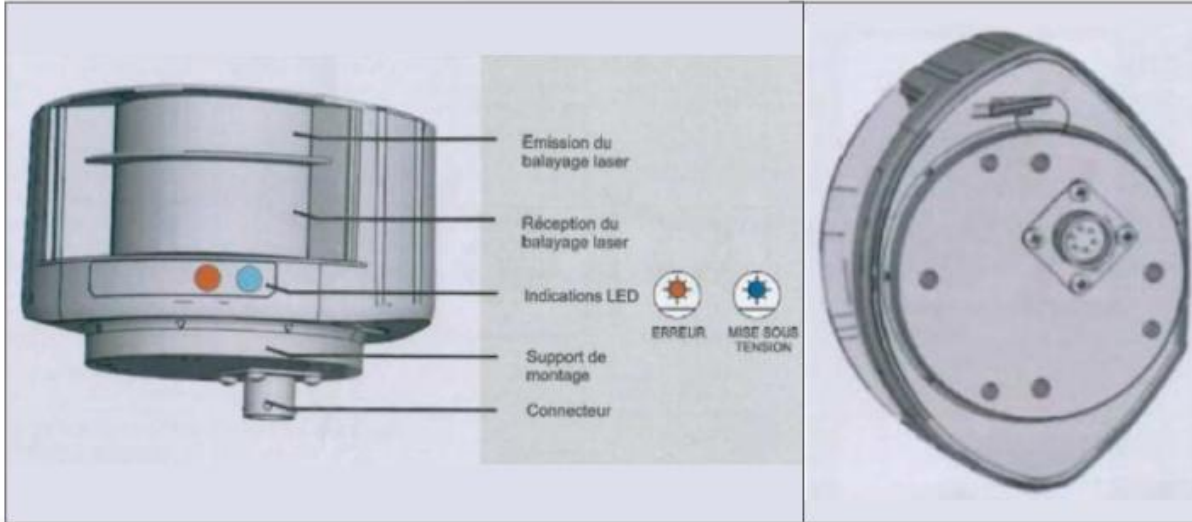


• Figure 1

GAPS

For laser scanners :

Dimension are 125mm x 93mm x 70 mm



• Figure 2 : Laser scanner

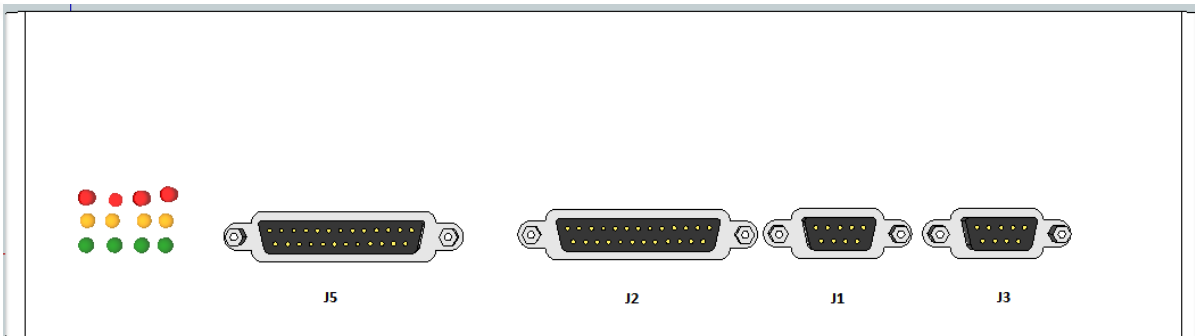


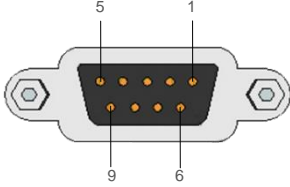
Figure 3 : CPU connector

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	

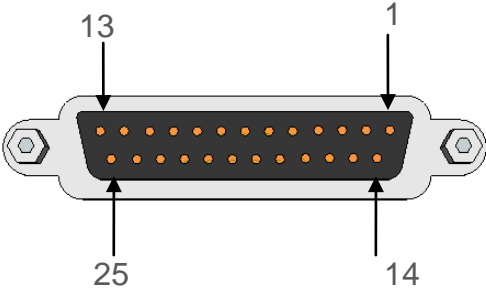
J1- DB9 receptacle (CAN):

Box side, front view	
Référence : HARTING – 09 66 162 6813	
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):

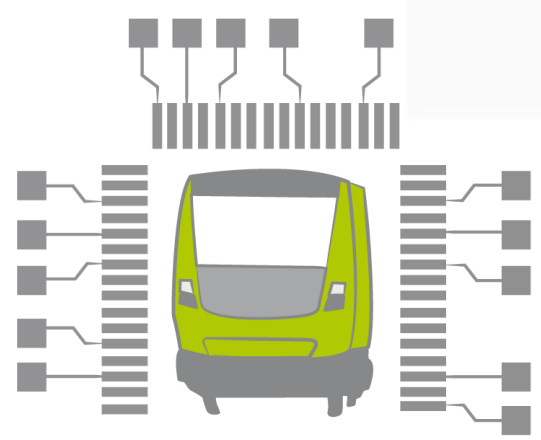
Box side, front view	
Référence : HARTING – 09 66 162 6813	
1. -	
2. -	
3. Gnd-iso	GND laser
4. 24G	24V Lasers P1
5. -	
6. Gnd-iso	GND laser
7. 24G	24V Lasers P1
8. -	
9. Gnd-iso	GND laser
10. 24D	24V Lasers P2
11. --	
12. Gnd-iso	GND laser
13. 24D	24V Lasers P2
14. ON_G	On/Off lasers P1
15. RX N 2P1	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





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