LADAR 2D OWS 6

The LADAR 2D OWS 6 has been developed as a non-contact protection device BWS type 3 for machinery with risks of personal injury.

As non-contact protection device the LADAR 2D OWS 6 is used to safeguard dangerous areas by creating monitored protection areas. As soon as a person or an object enters the monitored areas, an emergency stop of the machine is initiated by the LADAR 2D OWS 6.

Features

- all-directional (300°)
- safe
- easy to operate
- large monitoring range (up to about 262 m²)
- warning area of up to 10m for acoustic signal
- alarm area of up to 6m for an emergency stop
- exact definition of warning and alarm areas by PC







Typical use

- personal safety
- collision protection for vehicles

LADAR 2D OWS 6



For monitoring specified safety areas





Interface			
Pin No.	Signal	Description	Direction
A	GND	ground	
С	RTS	RS 232; ready to send	output
E	CTS	RS 232; clear to send	input
G	/TxD	RS 232; transmit data	output
J	/RxD	RS 232; receive data	input
L	-	do not connect!	
Μ		do not connect!	
Ν	LIN-	INMOS: LINK IN-	input
0	LIN+	INMOS: LINK IN+	input
Р	LOUT+	INMOS: LINK OUT+	output
R	LOUT-	INMOS: LINK OUT-	output
S	GND	ground	

Power supply and 24 VDC Signal				
Pin-No.	Signal	Description		
1	24 V	24 Volt DC supply		
2	GND 24	ground		
3	Safe 1.1	relais contact safety zone 1.1		
4	Safe 1.2	relais contact safety zone 1.2		
5	Safe 2.1	relais contact safety zone 2.1		
6	Safe 2.2	relais contact safety zone 2.2		
7	ALARM 1.1	relais contact alarm zone 1.1		
8	ALARM 1.2	relais contact alarm zone 1.2		

Typical use (personal safety at machi
	alarm zone
Specifications Features Laser class Range: Angle	LADAR 2D OWS laser class 1 300° scan
Maximum Distance: aiming on dark surface aiming on light surface Measurement accuraccy Angle	6 m 10 m ± 1°
at distance of Safety Extension Resolution: Angle Distance	2 m 3 m 4 m 5 25cm 35cm 45cm 55 0,5° 1 cm
Measurement dynamics rotation frequency output switch response time Interfaces	8 HZ, + 5% switched output: = 2
Switched outputs	RS 232, V24, 9600 RS 422, Inmos Link, 1 3, no potential against
Indicator lights	LED green: safety zo LED yellow: alarm oc LED red: safe zone o
Light source Beam diameter at: 6m	laser diode
10m Case General	16 cm aluminium
Power supply Current consumption Protection class Working temperature Storage temperature	24 VDC ± 25% 1,0 A, at 24 VD IP 65 0° 50°C -20° 70°C
Weight	3,2 kg

Electrical protection class

Shock, vibration

EMV

2 IEC 68

IEC 801





