

Unilateral Diffuse Type Safety Curtain

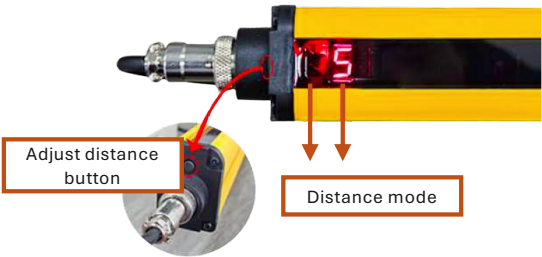
[DR Series]

- Ideal for space constrained applications
- 20 mm pitch axes
- < 10 ms fast response time
- 0.3 to 2 m detecting range



One-click distance adjustment

User can easily adjust the detection range with just one click away.



Adjustment method: Press and hold the adjustment button for 3 seconds until the display flashes. Each press increases the level from 1 to 9.

Detection range level:

- Level 0: 0.1 to 0.3m
- Level 1: 0.1 to 0.5m
- Level 2: 0.1 to 0.7m
- Level 3: 0.1 to 0.9m
- ...
- Level 9: 0.1 to 2 m

0.1 to 2 m detection distance

0.1 to 2 m

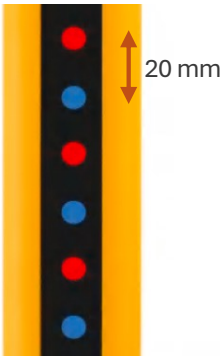
MAXIMUM DETECTION DISTANCE

10 ms instant hazard detection

With a response time of less than 10ms, ensures immediate detection and machine stoppage, minimizing the risk of accidents in high-speed environments.

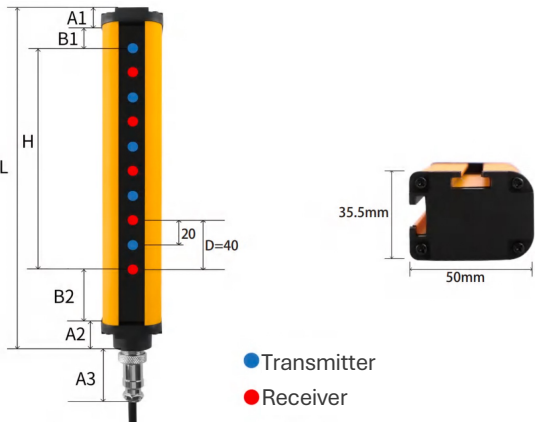
Compact axes with optimized alignment

The DR series safety curtain features a 20 mm gap between the transmitter and receiver.



Dimensions

unit: mm



A1	Upper cover
A2	Bottom cover
B1	Upper blind spot
B2	Bottom blind spot
D	Pitch axes
H	Detection area
L	Total length

L	A1 + A2 + B1 + B2 + H
H	(No. of axes - 1) * D
A1	8 mm
A2	18 mm
B1	20 mm
B2	45 mm
D	40 mm

Ordering guide

GZXX-YY-Z

XX	Pitch axes
YY	Total length
Z	Wiring method
	N = Single output
	P = With internal relay N.O. or N.C. signal

20 mm pitch

Model		No. of axes	Detection area (mm)	Total length (mm)	Pitch axes (mm)
NPN	PNP				
DR20-N4	DR20-P4	4	120	211	20
DR20-N6	DR20-P6	6	200	291	
DR20-N8	DR20-P8	8	280	371	
DR20-N10	DR20-P10	10	360	451	
DR20-N12	DR20-P12	12	440	531	
DR20-N14	DR20-P14	14	520	611	
DR20-N16	DR20-P16	16	600	691	
DR20-N18	DR20-P18	18	680	771	
DR20-N20	DR20-P20	20	760	851	
DR20-N22	DR20-P22	22	840	931	
DR20-N24	DR20-P24	24	920	1011	
DR20-N26	DR20-P26	26	1000	1091	
DR20-N28	DR20-P28	28	1080	1171	
DR20-N30	DR20-P30	30	1160	1251	
DR20-N32	DR20-P32	32	1240	1331	
DR20-N34	DR20-P34	34	1320	1411	
DR20-N36	DR20-P36	36	1400	1491	
DR20-N38	DR20-P38	38	1480	1571	

Specifications

Model		DR20
Operating	Pitch dimension	20 mm
	Detection capability	ø 25 mm
	Scanning range	0.3 to 2 m
	Light source	Infrared LED
	Response time	< 10 ms
OSSD operation		Turns on when no interruptions are present in the detection zone
Electrical data	Output	2 transistor outputs
	Switching current	200 mA
	Leakage current	Max. 1 mA
	Residual voltage	Max. 1 V
	Reverse polarity protection	Yes
	Short circuit and overload protection	Yes
Environment resistance	Enclosure rating	IP65
	Ambient temperature	-10 to +55°C (No freezing)
	Storage ambient temperature	-25 to +60°C (No freezing)
	Relative humidity	20 to 85% RH (No condensation)
	Storage humidity	20 to 85% RH (No condensation)
	Ambient light	Incandescent lamp: 10,000 lux or less
	Vibration	10 to 55 Hz, 0.75 mm compound amplitude, 2 hours sweep in the X, Y and Z directions
	Shock	300 m/s ² ,16 ms pulse in X, Y, and Z directions, 3 times each axis
Power supply		24 VDC including Ripple ±10% (P-P)
Power consumption		5 W or less
Material		Aluminium alloy

Safety Curtain

- Overview
- Code Reader
- Handheld Reader
- Vision Sensor
- Vision System
- Fiberoptic Sensor
- Photoelectric Sensor
- RGB Colour Sensor
- Proximity Sensor
- Ultrasonic Sensor
- Safety Curtain
- Ionizer