

1KN series

Machine Safety Devices

Applications

- Part type punching machine
- Injection molding machine
- Manipulator production line
- Middle of level automation, Metal Forming and variety of manufacturing line Automatic Storage Retrieval System, low risk
- Packaging line

Introduction

The 1KN series safety light curtains optical design architecture is compact and in line with international safety standards. The safety light curtains as a whole also meets the safety requirements of the international safety standards IEC61496-1 and IEC61496-2 TYPE 2, and has obtained the certificate of conformity of well-known European notified bodies.

Due to the compact factory site, the machines are placed side by side and close to each other, which highlights the inherent susceptibility to interference of infrared rays. Therefore, 1KN effectively improves the interference between Safety light curtains through the hardware configuration of frequency and infrared sensing devices



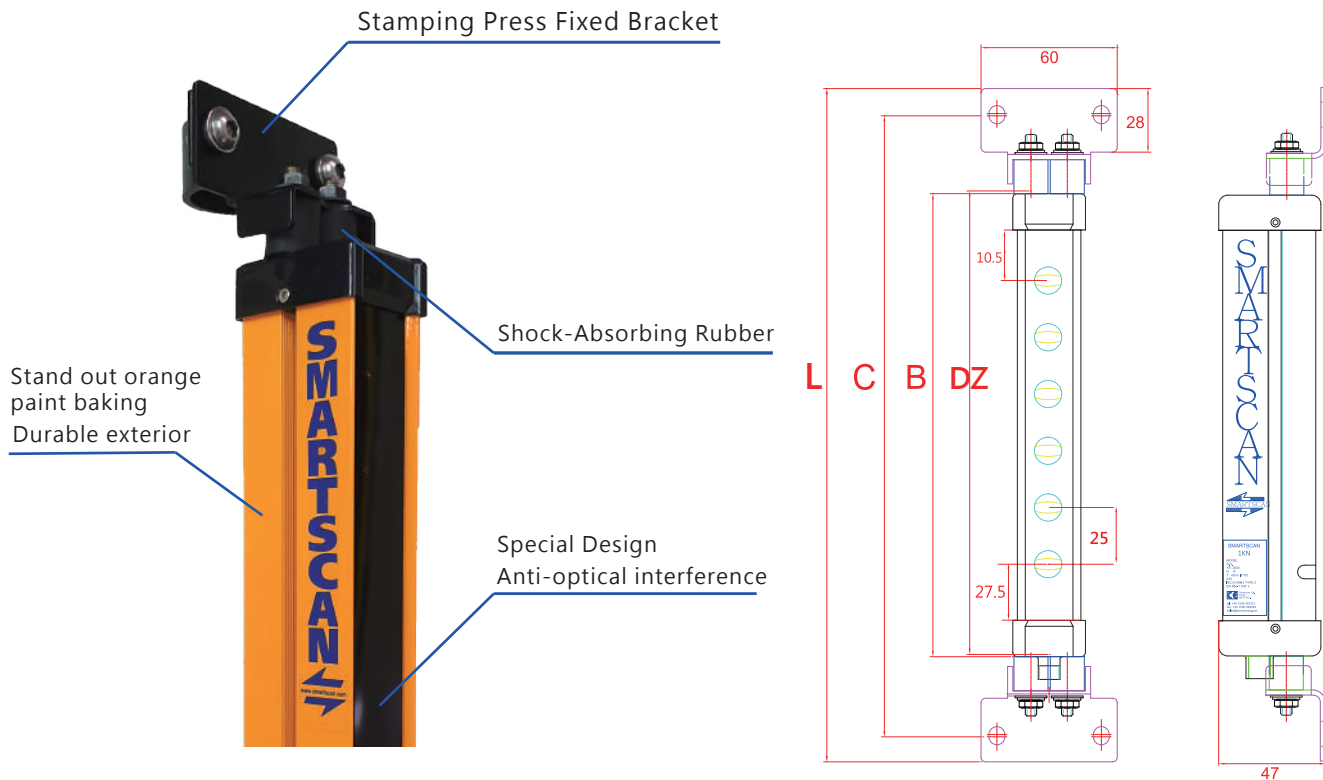
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Property

- Have 30mm · 40mm detection capability provide selection of client
- Detection capacity 30mm Operating distance 0.5~5m
- Detection capacity 40mm Operating distance 4~10m
- Enclosure Rating IP-65
- Self-diagnosis and work status indicator
- Special design to prevent interference between safety light curtains
- To use shock-resistant technology for the Powered press and shearing machines equipment

General Specifications

Number of beam	6 ~ 72	
Detection capability	30mm	40mm
Detection zone	180mm ~ 1830mm	190mm ~ 1840mm
Operating distance	0.5m ~ 5m	4m ~ 10m
Response time	20 msec (Exclude relay switch time)	
Ambient temperature	0°C to +50°C	
Enclosure rating	IP65 (Ingress Protection)Ratings	
Power supply	24VDC ± 10% · 1.5A (MAX)	
Power consumption	TX200mA + RX200mA + OSSD Output (500mA max.)	
Connector	M12connector(T type)	
Appearance	Aluminum ; yellow powder coating	
Classification	IEC61496-1 & IEC61496-2 : TYPE 2 IEC62061 SIL1 & ISO13849-1 PLc	
Output mode	2 independent safety output (type: solid state PNP transistor switches 500mA@24V DC)	



1KN Series Special for punching Machine

Detection Capability 30mm			Detection Capability 40mm		For Punching and Shearing Machine (T-shaped Connector)		
Operating distance 0.5m to 5m			Operating distance 4m to 10m				
Beams	Model	Detection Zone (DZ) (mm)	Model	Detection Zone (DZ) (mm)	Overall Length (B) (mm)	Install Length (C) (mm)	Assembly Length (L) (mm)
6	1KN6-180	180	1KN6-190L	190	195	265	288
12	1KN12-330	330	1KN12-340L	340	345	415	438
18	1KN18-480	480	1KN18-490L	490	495	565	588
24	1KN24-630	630	1KN24-640L	640	645	715	738
30	1KN30-780	780	1KN30-790L	790	795	865	888
36	1KN36-930	930	1KN36-940L	940	945	1015	1038
42	1KN42-1080	1080	1KN42-1090L	1090	1095	1165	1188
48	1KN48-1230	1230	1KN48-1240L	1240	1245	1315	1338
54	1KN54-1380	1380	1KN54-1390L	1390	1395	1465	1488
60	1KN60-1530	1530	1KN60-1540L	1540	1445	1615	1638
66	1KN66-1680	1680	1KN66-1690L	1690	1695	1765	1788
72	1KN72-1830	1830	1KN72-1840L	1840	1845	1915	1938

► This model is for punching and shearing machinery, and it is recommended to use it with GCM series control HOST