

VISION VXL

WITH BUILT-IN CONTROL FUNCTIONS

MAIN FEATURES

Two self-testing solid state PNP safety outputs.
 Periodic auto-test every 28 sec.
 Built-in start/restart interlock, selectable.
 Feedback input for control of external relays (EDM).
 All connections and configuration by means of M12 connectors.
 Use of standard 5-pole and 8-pole cables, up to 100 m long.

TECHNICAL FEATURES

Safety	type 2 with periodic auto-test every 28 sec.
Protected heights mm	160 ÷ 1210
Resolutions mm	30 – 40
Number of beams for body detection in access control	2 - 3 - 4
Max range m	8
Response time ms	4 ÷ 37
Safety outputs	2 PNP auto-controlled – 500 mA at 24 Vdc with short-circuit, overload, polarity reversal protection
Signalling	LEDs for light curtain's status and diagnostic
Restart	automatic or manual ,selectable
External Device Monitoring	feedback input
Power supply Vdc	24 ± 20%
Electrical connections	M12 - 5 poles for emitter M12 - 8 poles for receiver
Max. cable length m	100
Operating temperature °C	0 ÷ 55
Protection rating	IP 65
Fastening modes	3: back slot, side slot or to the top and lower end
Dimensioni sezione (mm)	35 x 45



Safety level: **Type 2.**

Complying with:

- 98/37/EEC "Machine Directive"
- 89/336/EEC "Electromagnetic Compatibility Directive"
- 73/23/EEC "Low Voltage Directive"
- EN 61496-1 and IEC 61496-1-2 "Electrosensitive protection devices"
- UL (C + US) mark for USA and Canada
- ANSI / UL 1998 "Safety Software in Programmable Components"

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Resolution 30 mm	VXL 153	VXL 303	VXL 453	VXL 603	VXL 753	VXL 903	VXL 1053	VXL 1203
Protected heights mm	160	310	460	610	760	910	1060	1210
Number of beams	8	16	24	32	40	48	56	64
Overall height mm	261	411	561	711	861	1011	1161	1311



Resolution 40 mm	VXL 304	VXL 454	VXL 604	VXL 754	VXL 904	VXL 1054	VXL 1204
Protected heights mm	310	460	610	760	910	1060	1210
Number of beams	10	15	20	25	30	35	40
Overall height mm	411	561	711	861	1011	1161	1311



2-3-4 beams	VXL 2B	VXL 3B	VXL 4B
Number of beams	2	3	4
Distance between beams mm	500	400	300
Protected heights mm	510	810	910
Overall height mm	711	1011	1111

- For accessories list see page 97
- For ordering codes see page 133

ORDERING INFORMATION (for ordering codes see page 131)

Each Vision light curtain comprises:

- Emitter and Receiver pair
- Mounting brackets and T-nuts
- CD-ROM containing the multi-language instruction manual complete with CE declaration of conformity

ACCESSORIES

For Vision light curtains the following accessories, to be ordered separately, are available:

- AD SR Safety Relays see page 105
- LAD laser alignment device see page 124
- FMC floor mounting columns see page 120
- SP deflection mirrors see page 122
- SFB swivel fixing brackets see page 125
- SAV vibrations dampers see page 125
- Connectors see below:

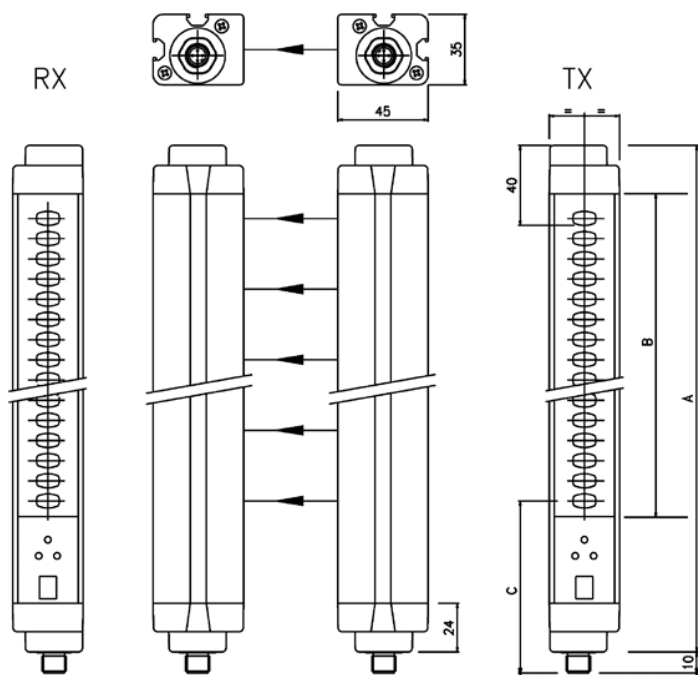
Model	Description
Connectors for Vision V emitter and receiver / VX – VXL - MXL emitter	
CD 5	M12, straight connector, 5 poles, pre-wired cable 5 m
CD 10	M12, straight connector, 5 poles, pre-wired cable 10 m
CD 15	M12, straight connector, 5 poles, pre-wired cable 15 m
CD 20	M12, straight connector, 5 poles, pre-wired cable 20 m
CD 95	M12, 90° angle connector, 5 poles, pre-wired cable 5 m
CD 910	M12, 90° angle connector, 5 poles, pre-wired cable 10 m
CD 915	M12, 90° angle connector, 5 poles, pre-wired cable 15 m
CDM 9	M12, straight connector, 5 poles with screw terminal, PG9 cable gland
CDM 99	M12, angle connector, 5 poles with screw terminal, PG9 cable gland
Connectors for Vision / VX – VXL - receiver	
C8D 5	M12, straight connector, 8 poles, pre-wired cable 5 m
C8D 10	M12, straight connector, 8 poles, pre-wired cable 10 m
C8D 15	M12, straight connector, 8 poles, pre-wired cable 15 m
C8D 95	M12, 90° angle connector, 8 poles, pre-wired cable 5 m
C8D 910	M12, 90° angle connector, 8 poles, pre-wired cable 10 m
C8D 915	M12, 90° angle connector, 8 poles, pre-wired cable 15 m
C8DM 9	M12, straight connector, 8 poles with screw terminal, PG9 cable gland
C8DM 99	M12, angle connector, 8 poles with screw terminal, PG9 cable gland
C8DM 11 new	M12, straight connector, 8 poles with screw terminal, PG9/11 cable gland
C8DM 911 new	M12, angle connector, 8 poles with screw terminal, PG9/11 cable gland
Connectors for Vision MXL - receiver	
C12D 3	M16, straight connector, 12 poles, pre-wired cable 3 m
C12D 5	M16, straight connector, 12 poles, pre-wired cable 5 m
C12D 10	M16, straight connector, 12 poles, pre-wired cable 10 m
Connection between master and slave	
CDS 03	0.3 m pre-wired cable with 2 straight connectors, M12, 5 poles
CIBE 3	3 m pre-wired cable with 2 straight connectors, M12, 5 poles
CIBE 5	5 m pre-wired cable with 2 straight connectors, M12, 5 poles
CIBE 10	10 m pre-wired cable with 2 straight connectors, M12, 5 poles

The Vision VX WT models are already supplied with 10 metres pre-wired cables and ring brackets

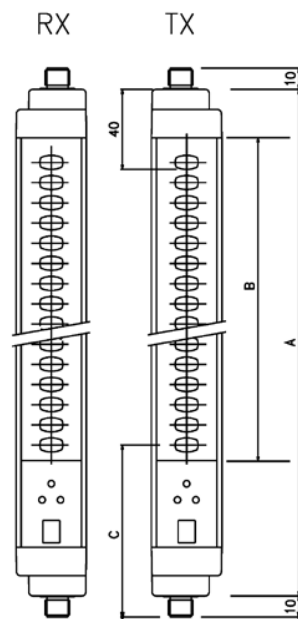
VISION

DIMENSIONS mm

STANDARD AND SLAVE MODELS



MASTER MODELS



Model	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800
A	251	401	551	701	851	1001	1151	1301	1451	1601	1751	1901
B (protected height)	160	310	460	610	760	910	1060	1210	1360	1510	1660	1810
C (1st beam position)	85											
Mounting	2 LS type brackets with 2 inserts						3 LS type brackets with 3 inserts					

Model	2B	3B	4B
A	701	1001	1101
B	510	810	910
C (1st beam position)	135		
Mounting	2 LS type brackets with 2 inserts		



WARNING !

- When the light curtain works in the presence of strong vibrations (presses, weaving machines etc.), in order to avoid damages to the light curtain it is necessary to use the anti-vibration dampers SAV (available as accessories).
- When long range protections or perimeter protections employing mirrors have to be realised it is advisable to use the LAD laser pointer as an alignment aid, as well as the adjustable swivel brackets SWB.

AD SRO / AD SROA

MAIN FEATURES

The AD SRO and AD SROA relay modules have been especially designed for **interfacing the Admiral AX, Vision VX/VXL/MXL, Janus** safety light curtains and the **Pharo** safety laser scanner, equipped with feedback input for controlling external relays, with the control circuits of the machine.

The module operates with **2 relays with guided contacts for safety applications**, driven and monitored directly by the safety sensor.



TECHNICAL FEATURES

Model	AD SRO	AD SROA
Safety relay outputs	2 NO + 1 NC - 2 A 250 Vac *	2 NO - 2 A 250 Vac
EDM	2 NC - 2 A 250 Vac series contacts dedicated to relay monitoring made by the safety sensor	
Response time ms	≤ 20	
Power supply Vdc	24 ± 20%	
Electrical connections	on terminal block	
Operating temperature °C	0 ÷ 55	
Protection rating	IP 20 for housing - IP 2X for terminal block	
Mounting	rail fastening according to EN 50022-35 standard	
Dimensions (h x w x d) mm	101 x 35 x 120	

* In AD SRO safety relay each NO safety output line is interrupted twice by the two relays

ORDERING INFORMATION (for ordering codes see page 133)

Each AD SRO and AD SROA safety relay includes:

- Multi-language instruction manual complete with CE declaration of conformity.



WARNING !

The AD SRO and AD SROA modules can only be connected to safety sensors equipped with feedback input for monitoring external relays (EDM); that is, the models of the Janus, Admiral AX (excluding the AX BK models with Blanking), Pharo and Vision VX, VXL and MXL ranges.

Please contact Reer for any other type of application.