

LV100D, LV150D: Compatibility with Light Screens LV...M

(More information on Light Screens LV...M: see data sheet 499.027.72)

Appropriate substitutes

The actual Light Screens series LV...M are available with “*sensing areas*” from 30x30mm up to 400x400mm. The versions LV100M (sensing area 100x100mm) and LV150/150M (sensing area 150x150mm) are especially suitable for replacement of LV100D and LV150D respectively.

Mechanical Adaptation

Light Screens series LV...M are considerably smaller than Light Screens LV...D. An especial *Adaptor flange* is available for Adaptation of a LV...M to the existing LV...D assembly situation.

With this device the fastening spots existing for LV...D may be used. Therewith the position of the LV...M sensing area meets horizontally as well as vertically the sensing area position of the replaced LV...D.

	LV...M Substitute		Adaptor flange
Light Screen LV100D	LV100M	329.101.11	329.200.01
Light Screen LV150D	LV150/150M	329.113.11	329.200.02

Sensitivity setting

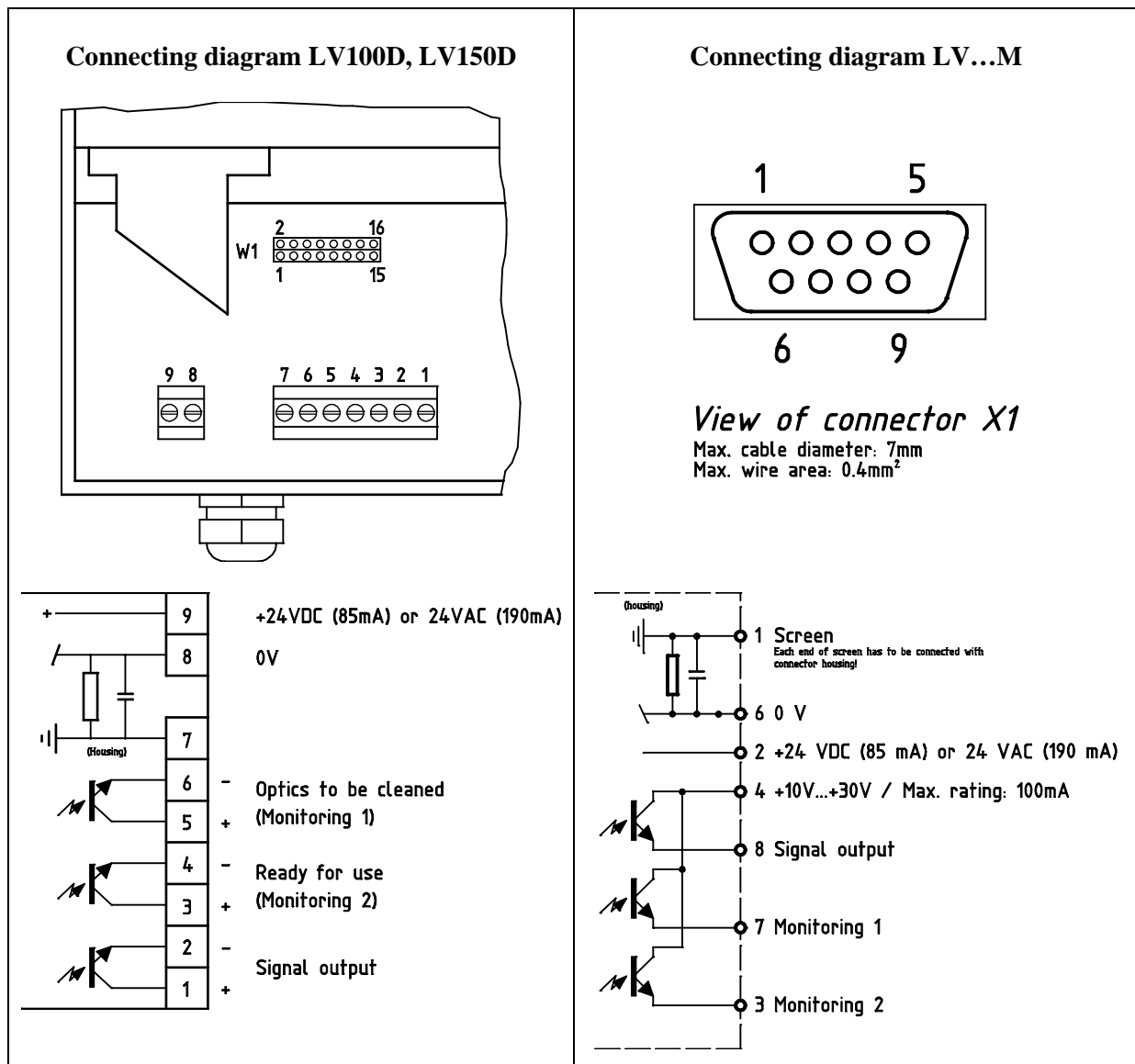
With Light Screens LV...D the sensitivity can be selected by selector switch in 5 fixed sensitivity levels.

	Level 1	Level 2	Level 3	Level 4	Level 5
Light Screen LV100D	1mm	2mm	4mm	8mm	16mm
Light Screen LV150D	2mm	3mm	6mm	12mm	24mm

With Light Screens LV...M the sensitivity can be selected by selector switch within 3 switch settings. The user can make the 3 positions on the switch (A, B and C) corresponding to any 3 of 5 sensitivity levels by internal jumper settings.

	Light Screen LV100M			Light Screen LV150/150M		
	Position A	Position B	Position C	Position A	Position B	Position C
	1mm	2mm	4mm	2mm	3mm	6mm
<i>or</i>	1mm	4mm	8mm	2mm	6mm	12mm
<i>or</i>	1mm	8mm	16mm	2mm	12mm	24mm
<i>or</i>	2mm	4mm	8mm	3mm	6mm	12mm
<i>or</i>	2mm	8mm	16mm	3mm	12mm	24mm
<i>or</i>	4mm	8mm	16mm	6mm	12m	24mm

Adaptation of wiring to the LV...M

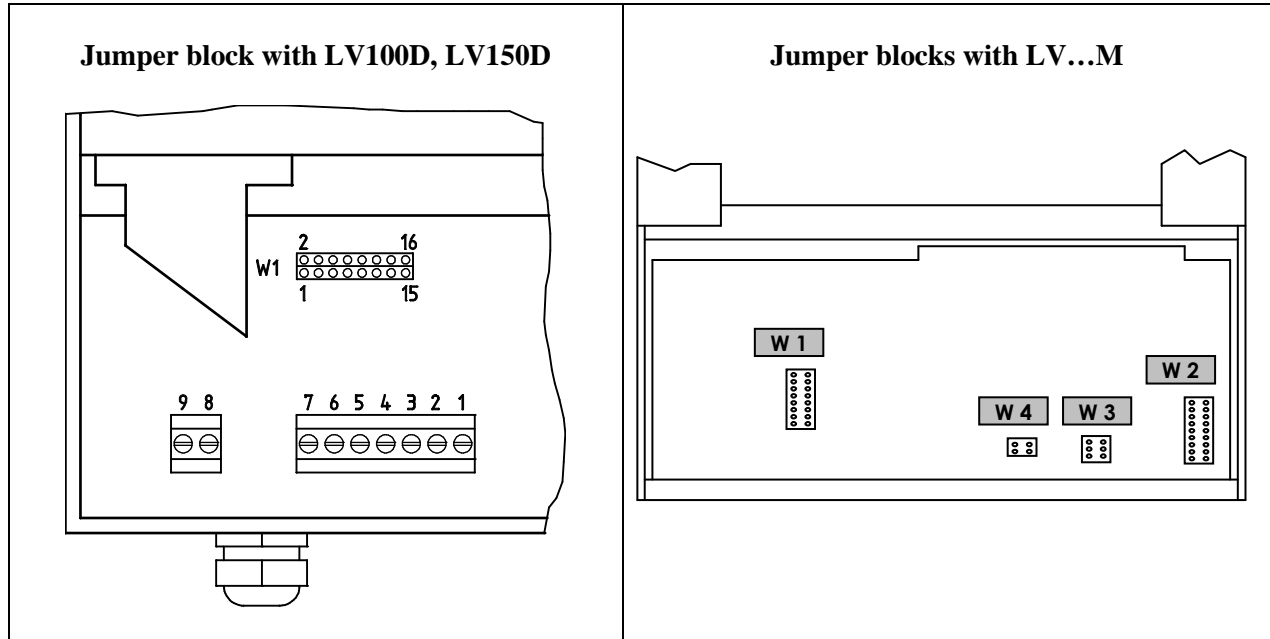


The outputs of Light Screens LV100D, LV150D may be used in **“switching zero” mode** as well as in **“switching plus” mode**. With LV...M just **“switching plus” mode** is possible.

When replacing a LV...D with **“switching plus” mode** the switched voltage (terminal 5 and 3 and 1 respectively) has to be connected with pin 4 of LV...M connector X1. All the rest of the wires has to be connected to the connector X1 pins with the corresponding notations.

Instruction for wiring adaptation when using the LV...D in **“switching zero” mode**: On request.

Corresponding Jumper Settings



The jumper blocks (*W1 with LV...D; W1, W2, W3, W4 with LV...M*) are accessible by removing the cover. The following table contains the jumper settings of LV...D corresponding to those of LV...M.

Outputs	LV...D		LV...M			
	W1		W1		W4	
	on	off	on	off	on	off
Optics to be cleaned (Monitoring 1)						
positive Logic output	1-2	3-4	1-2	3-4	1-2	3-4
<i>or</i> negative Logic output	3-4	1-2	3-4	1-2	1-2	3-4
Ready for use (Monitoring 2)						
positive Logic output	5-6	7-8	5-6	7-8	1-2	3-4
<i>or</i> negative Logic output	7-8	5-6	7-8	5-6	1-2	3-4
Signal output						
A, positive Logic output	13-14 9-10	15-16 11-12	9-10 13-14	11-12 15-16	1-2	3-4
<i>or</i> A, negative Logic output	13-14 11-12	15-16 9-10	11-12 13-14	9-10 15-16	1-2	3-4
<i>or</i> B, positive Logic output	15-16 9-10	13-14 11-12	9-10 15-16	11-12 13-14	3-4	1-2
<i>or</i> B, negative Logic output	15-16 11-12	13-14 9-10	11-12 15-16	9-10 13-14	3-4	1-2

Light Screens LV...M have more advanced programming features. For more information see data sheet 499.027.72.

The product specifications are based on theoretical and experimental data, and we also have a policy of continuous improvement in performance. Thus although we attempt to provide equipment which in all respects meets specifications, this cannot be ensured in all cases without written confirmation from OPTRONIC AG.