

Data sheet

Commercial Art.No.: R1.542.0450.0

light curtain SLC-4TR20-0450

Safety-Lightcurtain Type 4, Transmitter, Resolution 20 mm, L = 450 mm



Commercial Art.No.	R1.542.0450.0
EAN	4049088201738
Order Unit	1

certificates / approvals



Technical data

function

sensor element	Transmitter
with muting function	no
with muting display	no
muting with	samosPRO COMPACT
with beam coding	no
automatic start	no
restart interlock	no
alignment aid	no
blanking	no
cascadable	no

technical data

type acc. EN 61496-1	4
resolution	20 mm
protective field height	450 mm
distance	0 - 15 m
connection	connector M12
nominal voltage	24 V
voltage type	DC
number of OSSD outputs	2
max. output current	380 mA
degree of protection (IP)	IP65
PFH _d (High demand mode)	7.73 E-9 1/h
mission time TM	20 a

safety parameters

category (ISO 13849-1)	4
PL (ISO 13849-1)	level e

SIL _{CL} (IEC 62061)	3
PFH _d (High demand mode)	7.73 E-9 1/h
HFT	1
T _M	20 a

dimensions

width sensor	29 mm
height of sensor	35.4 mm
length of sensor	516 mm

classification

ECLASS 11	
ECLASS 8.1	27270910
ETIM 9.0	EC002549
ETIM 8.0	EC002549
ETIM 7.0	EC002549
ETIM 6.0	EC002549
ETIM 5.0	EC002549
ETIM 4.0	EC002549
ETIM 3.0	EC002549

product compliance

ROHS conformity status	compliant
REACH-SVHC conformity status	compliant

Accessories

Commercial Art.No.:	Article-type description:	Description:
R1.594.1000.0	tilted mirror tie bar SLX-COLM-1000	Reflector column, persistant 1000 mm
R1.595.0450.0	tilted mirror SLX-MIR-0450	Reflector, length: 510 mm
R1.596.1430.0	test bar SLX-ACC-TEST1430	Test bar, 14/30 mm
R1.596.2040.0	test bar SLX-ACC-TEST2040	Test bar, 20/40 mm
R1.500.0505.0	connection cable SLX-CAB-M12-0505	SLC M12, 5 pin Connection Cable (unshielded), 5m long
R1.500.0510.0	connection cable SLX-CAB-M12-0510	Connection cable M12, 5-pole, Length 10m, unshielded
R1.500.0515.0	connection cable SLX-CAB-M12-0515	Connection cable M12, 5-pole, Length 15m, unshielded
R1.500.0525.0	connection cable SLX-CAB-M12-0525	Connection cable M12, 5-pole, Length 25m, unshielded
R1.500.0550.0	connection cable SLX-CAB-M12-0550	Connection cable M12, 5-pole, Length 50m, unshielded
R1.600.0505.0	connection cable SLX-CAB-M12-S0505	Connection cable M12, 5-pole, Length 5m, shielded
R1.600.0510.0	connection cable SLX-CAB-M12-S0510	Connection cable M12, 5-pole, Length 10m, shielded
R1.600.0515.0	connection cable SLX-CAB-M12-S0515	Connection cable M12, 5-pole, Length 15m, shielded
R1.600.0525.0	connection cable SLX-CAB-M12-S0525	Connection cable M12, 5-pole, Length 25m, shielded
R1.600.0550.0	connection cable SLX-CAB-M12-S0550	Connection cable M12, 5-pole, Length 50m, shielded
R1.593.0900.0	device columns SLX-COL-0900	"Device column, profile heighth: 820 mm; Total heighth: 900 mm"
R1.591.0001.0	sliding block set SLX-MO-TNUTM6	Set Slot nut with M6-screw thread, 10 pcs.
R1.591.0005.0	Z-fixture SLX-MO-Z	Z-Bracket, 2 pcs.
R1.591.0007.0	rotary holding with shockabsorber SLX-MO-RO-S	Rotative bracket with Shockabsorber, 70mm lang, 2 pcs.
R1.591.0009.0	tool holder SLX-MO-CLIP	Clamp bracket, for Installation in Device column
R1.591.0010.0	set tool holder SLX-MO-CLIP2	Set Clamp bracket, for Installation in Device column

R1.591.0020.0	rotary holding 360° SLX-MO-RO2	Rotative bracket, 2 pcs., incl. 1 pcs. SLC-cylinder
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Fits with

Commercial Art.No.:	Article-type description:	Description:
R1.552.0450.0	light curtain SLC-4ST20-0450	Safety-Lightcurtain Type 4, Receiver-Standard, Resolution 20 mm, L = 450 mm
R1.572.0450.0	light curtain SLC-4PR20-0450	Safety-Lightcurtain Type 4, Receiver-Professional, Resolution 20 mm, L = 450 mm

SLC 2 - Sender / transmitter

Schutzfeldhöhe / Protective field height (mm)	Länge / length (mm)	Auflösung / resolution 20 mm	Auflösung / resolution 30 mm	Auflösung / resolution 40 mm	Auflösung / resolution 90 mm
150	216	R1.512.0150.0	R1.513.0150.0	R1.514.0150.0	-
225	291	R1.512.0225.0	R1.513.0225.0	R1.514.0225.0	-
300	366	R1.512.0300.0	R1.513.0300.0	R1.514.0300.0	-
450	516	R1.512.0450.0	R1.513.0450.0	R1.514.0450.0	-
600	666	R1.512.0600.0	R1.513.0600.0	R1.514.0600.0	R1.515.0600.0
750	816	R1.512.0750.0	R1.513.0750.0	R1.514.0750.0	R1.515.0750.0
900	966	R1.512.0900.0	R1.513.0900.0	R1.514.0900.0	R1.515.0900.0
1050	1116	R1.512.1050.0	R1.513.1050.0	R1.514.1050.0	R1.515.1050.0
1200	1266	R1.512.1200.0	R1.513.1200.0	R1.514.1200.0	R1.515.1200.0
1350	1416	R1.512.1350.0	R1.513.1350.0	R1.514.1350.0	R1.515.1350.0
1500	1566	R1.512.1500.0	R1.513.1500.0	R1.514.1500.0	R1.515.1500.0
1650	1716	R1.512.1650.0	R1.513.1650.0	R1.514.1650.0	R1.515.1650.0
1800	1866	R1.512.1800.0	R1.513.1800.0	R1.514.1800.0	R1.515.1800.0

SLC 2 - Empfänger Standard / receiver standard

Schutzfeldhöhe / Protective field height (mm)	Länge / length (mm)	Auflösung / resolution 20 mm	Auflösung / resolution 30 mm	Auflösung / resolution 40 mm	Auflösung / resolution 90 mm
150	216	R1.522.0150.0	R1.523.0150.0	R1.524.0150.0	-
225	291	R1.522.0225.0	R1.523.0225.0	R1.524.0225.0	-
300	366	R1.522.0300.0	R1.523.0300.0	R1.524.0300.0	-
450	516	R1.522.0450.0	R1.523.0450.0	R1.524.0450.0	-
600	666	R1.522.0600.0	R1.523.0600.0	R1.524.0600.0	R1.525.0600.0
750	816	R1.522.0750.0	R1.523.0750.0	R1.524.0750.0	R1.525.0750.0
900	966	R1.522.0900.0	R1.523.0900.0	R1.524.0900.0	R1.525.0900.0
1050	1116	R1.522.1050.0	R1.523.1050.0	R1.524.1050.0	R1.525.1050.0
1200	1266	R1.522.1200.0	R1.523.1200.0	R1.524.1200.0	R1.525.1200.0
1350	1416	R1.522.1350.0	R1.523.1350.0	R1.524.1350.0	R1.525.1350.0
1500	1566	R1.522.1500.0	R1.523.1500.0	R1.524.1500.0	R1.525.1500.0
1650	1716	R1.522.1650.0	R1.523.1650.0	R1.524.1650.0	R1.525.1650.0
1800	1866	R1.522.1800.0	R1.523.1800.0	R1.524.1800.0	R1.525.1800.0

SLC 2 - Empfänger Select / receiver select

Schutzfeldhöhe / Protective field height (mm)	Länge / length (mm)	Auflösung / resolution 20 mm	Auflösung / resolution 30 mm	Auflösung / resolution 40 mm	Auflösung / resolution 90 mm
150	216	R1.532.0150.0	R1.533.0150.0	R1.534.0150.0	-
225	291	R1.532.0225.0	R1.533.0225.0	R1.534.0225.0	-
300	366	R1.532.0300.0	R1.533.0300.0	R1.534.0300.0	-
450	516	R1.532.0450.0	R1.533.0450.0	R1.534.0450.0	-
600	666	R1.532.0600.0	R1.533.0600.0	R1.534.0600.0	R1.535.0600.0
750	816	R1.532.0750.0	R1.533.0750.0	R1.534.0750.0	R1.535.0750.0
900	966	R1.532.0900.0	R1.533.0900.0	R1.534.0900.0	R1.535.0900.0
1050	1116	R1.532.1050.0	R1.533.1050.0	R1.534.1050.0	R1.535.1050.0
1200	1266	R1.532.1200.0	R1.533.1200.0	R1.534.1200.0	R1.535.1200.0
1350	1416	R1.532.1350.0	R1.533.1350.0	R1.534.1350.0	R1.535.1350.0
1500	1566	R1.532.1500.0	R1.533.1500.0	R1.534.1500.0	R1.535.1500.0
1650	1716	R1.532.1650.0	R1.533.1650.0	R1.534.1650.0	R1.535.1650.0
1800	1866	R1.532.1800.0	R1.533.1800.0	R1.534.1800.0	R1.535.1800.0

SLC 4 - Sender / transmitter

Schutzfeldhöhe / Protective field height (mm)	Länge / length (mm)	Auflösung / resolution 14 mm	Auflösung / resolution 20 mm	Auflösung / resolution 30 mm	Auflösung / resolution 40 mm	Auflösung / resolution 90 mm
150	216	R1.541.0150.0	R1.542.0150.0	R1.543.0150.0	R1.544.0150.0	-
225	291	-	R1.542.0225.0	R1.543.0225.0	R1.544.0225.0	-
300	366	R1.541.0300.0	R1.542.0300.0	R1.543.0300.0	R1.544.0300.0	-
450	516	R1.541.0450.0	R1.542.0450.0	R1.543.0450.0	R1.544.0450.0	-
600	666	R1.541.0600.0	R1.542.0600.0	R1.543.0600.0	R1.544.0600.0	R1.545.0600.0
750	816	R1.541.0750.0	R1.542.0750.0	R1.543.0750.0	R1.544.0750.0	R1.545.0750.0
900	966	R1.541.0900.0	R1.542.0900.0	R1.543.0900.0	R1.544.0900.0	R1.545.0900.0
1050	1116	R1.541.1050.0	R1.542.1050.0	R1.543.1050.0	R1.544.1050.0	R1.545.1050.0
1200	1266	R1.541.1200.0	R1.542.1200.0	R1.543.1200.0	R1.544.1200.0	R1.545.1200.0
1350	1416	R1.541.1350.0	R1.542.1350.0	R1.543.1350.0	R1.544.1350.0	R1.545.1350.0
1500	1566	R1.541.1500.0	R1.542.1500.0	R1.543.1500.0	R1.544.1500.0	R1.545.1500.0
1650	1716	R1.541.1650.0	R1.542.1650.0	R1.543.1650.0	R1.544.1650.0	R1.545.1650.0
1800	1866	R1.541.1800.0	R1.542.1800.0	R1.543.1800.0	R1.544.1800.0	R1.545.1800.0

SLC 4 - Empfänger Standard / receiver standard

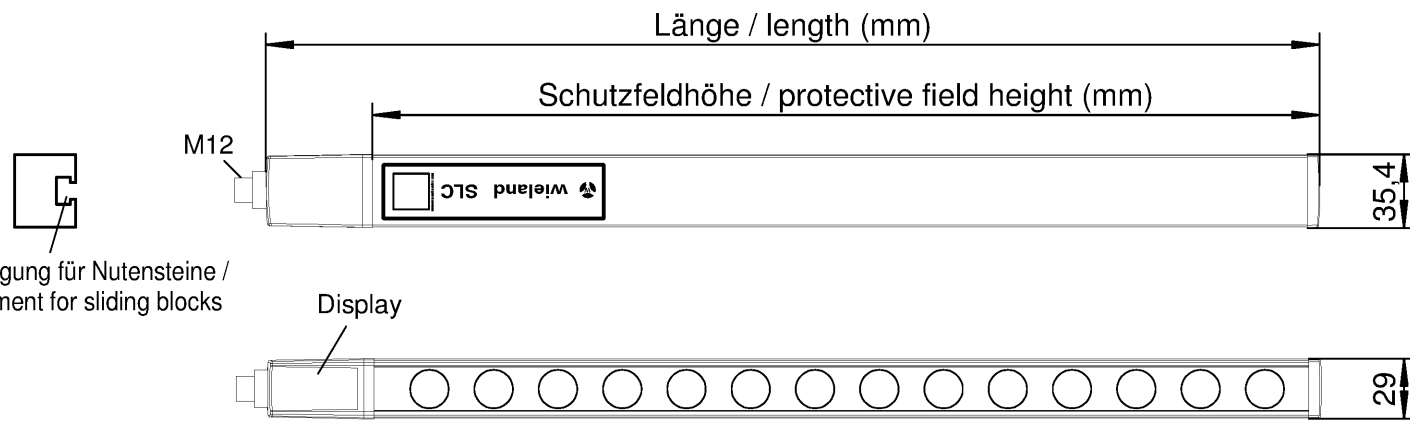
Schutzfeldhöhe / Protective field height (mm)	Länge / length (mm)	Auflösung / resolution 14 mm	Auflösung / resolution 20 mm	Auflösung / resolution 30 mm	Auflösung / resolution 40 mm	Auflösung / resolution 90 mm
150	216	R1.551.0150.0	R1.552.0150.0	R1.553.0150.0	R1.554.0150.0	-
225	291	-	R1.552.0225.0	R1.553.0225.0	R1.554.0225.0	-
300	366	R1.551.0300.0	R1.552.0300.0	R1.553.0300.0	R1.554.0300.0	-
450	516	R1.551.0450.0	R1.552.0450.0	R1.553.0450.0	R1.554.0450.0	-
600	666	R1.551.0600.0	R1.552.0600.0	R1.553.0600.0	R1.554.0600.0	R1.555.0600.0
750	816	R1.551.0750.0	R1.552.0750.0	R1.553.0750.0	R1.554.0750.0	R1.555.0750.0
900	966	R1.551.0900.0	R1.552.0900.0	R1.553.0900.0	R1.554.0900.0	R1.555.0900.0
1050	1116	R1.551.1050.0	R1.552.1050.0	R1.553.1050.0	R1.554.1050.0	R1.555.1050.0
1200	1266	R1.551.1200.0	R1.552.1200.0	R1.553.1200.0	R1.554.1200.0	R1.555.1200.0
1350	1416	R1.551.1350.0	R1.552.1350.0	R1.553.1350.0	R1.554.1350.0	R1.555.1350.0
1500	1566	R1.551.1500.0	R1.552.1500.0	R1.553.1500.0	R1.554.1500.0	R1.555.1500.0
1650	1716	R1.551.1650.0	R1.552.1650.0	R1.553.1650.0	R1.554.1650.0	R1.555.1650.0
1800	1866	R1.551.1800.0	R1.552.1800.0	R1.553.1800.0	R1.554.1800.0	R1.555.1800.0

SLC 4 - Empfänger Select / receiver select

Schutzfeldhöhe / Protective field height (mm)	Länge / length (mm)	Auflösung / resolution 14 mm	Auflösung / resolution 20 mm	Auflösung / resolution 30 mm	Auflösung / resolution 40 mm	Auflösung / resolution 90 mm
150	216	R1.561.0150.0	R1.562.0150.0	R1.563.0150.0	R1.564.0150.0	-
225	291	-	R1.562.0225.0	R1.563.0225.0	R1.564.0225.0	-
300	366	R1.561.0300.0	R1.562.0300.0	R1.563.0300.0	R1.564.0300.0	-
450	516	R1.561.0450.0	R1.562.0450.0	R1.563.0450.0	R1.564.0450.0	-
600	666	R1.561.0600.0	R1.562.0600.0	R1.563.0600.0	R1.564.0600.0	R1.565.0600.0
750	816	R1.561.0750.0	R1.562.0750.0	R1.563.0750.0	R1.564.0750.0	R1.565.0750.0
900	966	R1.561.0900.0	R1.562.0900.0	R1.563.0900.0	R1.564.0900.0	R1.565.0900.0
1050	1116	R1.561.1050.0	R1.562.1050.0	R1.563.1050.0	R1.564.1050.0	R1.565.1050.0
1200	1266	R1.561.1200.0	R1.562.1200.0	R1.563.1200.0	R1.564.1200.0	R1.565.1200.0
1350	1416	R1.561.1350.0	R1.562.1350.0	R1.563.1350.0	R1.564.1350.0	R1.565.1350.0
1500	1566	R1.561.1500.0	R1.562.1500.0	R1.563.1500.0	R1.564.1500.0	R1.565.1500.0
1650	1716	R1.561.1650.0	R1.562.1650.0	R1.563.1650.0	R1.564.1650.0	R1.565.1650.0
1800	1866	R1.561.1800.0	R1.562.1800.0	R1.563.1800.0	R1.564.1800.0	R1.565.1800.0

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Werkstoff / Material	2015 Tag/Date Name gezeichnet drawn 30.04. Kötzner	Zeichnung Nr. / Drawing No. T R1.512.0150.0 01K	
Maßstab/Scale	geprüft checked Normgepr. Stand. check	Maße in mm / Dimensions are in mm	
Datei / File: 40631__01K.DCD		Ersatz für / Replacement for:	
Index	Datum / Blatt Date / Sheet	Type	Benennung / Title Teilespezifikation / Component specification Lichtvorhang SLC / light curtain SLC
Änderung / Revision			