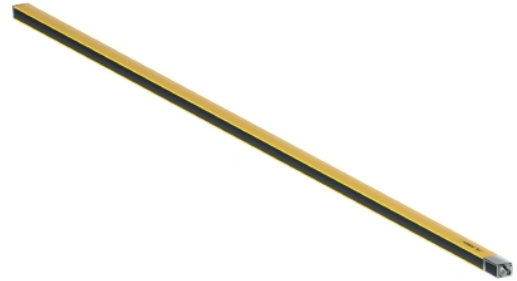


## Data sheet

Commercial Art.No.: R1.552.1800.0

light curtain SLC-4ST20-1800

Safety-Lightcurtain Type 4, Receiver-Standard, Resolution 20 mm, L = 1800 mm



|                    |               |
|--------------------|---------------|
| Commercial Art.No. | R1.552.1800.0 |
| EAN                | 4049088200861 |
| Order Unit         | 1             |

certificates / approvals



## Technical data

### function

|                      |                  |
|----------------------|------------------|
| sensor element       |                  |
| with muting function | no               |
| with muting display  | no               |
| muting with          | samosPRO COMPACT |
| with beam coding     | yes              |
| automatic start      | yes              |
| restart interlock    | no               |
| alignment aid        | no               |
| blinking             | no               |
| cascadable           | no               |

### technical data

|                                     |               |
|-------------------------------------|---------------|
| type acc. EN 61496-1                | 4             |
| resolution                          | 20 mm         |
| protective field height             | 1800 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 <sub>d</sub> (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 <sub>CL</sub> (IEC 62061)       | 3            |
| PFH <sub>d</sub> (High demand mode) | 7.73 E-9 1/h |
| HFT                                 | 1            |
| T <sub>M</sub>                      | 20 a         |

**dimensions**

|                  |         |
|------------------|---------|
| width sensor     | 29 mm   |
| height of sensor | 35.4 mm |
| length of sensor | 1866 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:  |
|---------------------|---|---|
| R1.594.1900.0       | tilted mirror tie bar SLX-COLM-1900           | Reflector column, persistant 1900 mm                            |
| R1.595.1800.0       | tilted mirror SLX-MIR-1800                    | Reflector, length: 1860 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              |
| R1.593.1900.0       | device columns SLX-COL-1900                   | "Device column, profile heigth: 1880 mm; Total heigth: 1960 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 |
|---------------|--------------------------------|---|

**Fits with**

| <b>Commercial Art.No.:</b> | <b>Article-type description:</b> | <b>Description:</b>  |
|----------------------------|----------------------------------|--|
| R1.542.1800.0              | light curtain SLC-4TR20-1800     | Safety-Lightcurtain Type 4, Transmitter, Resolution 20 mm, L = 1800 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                |

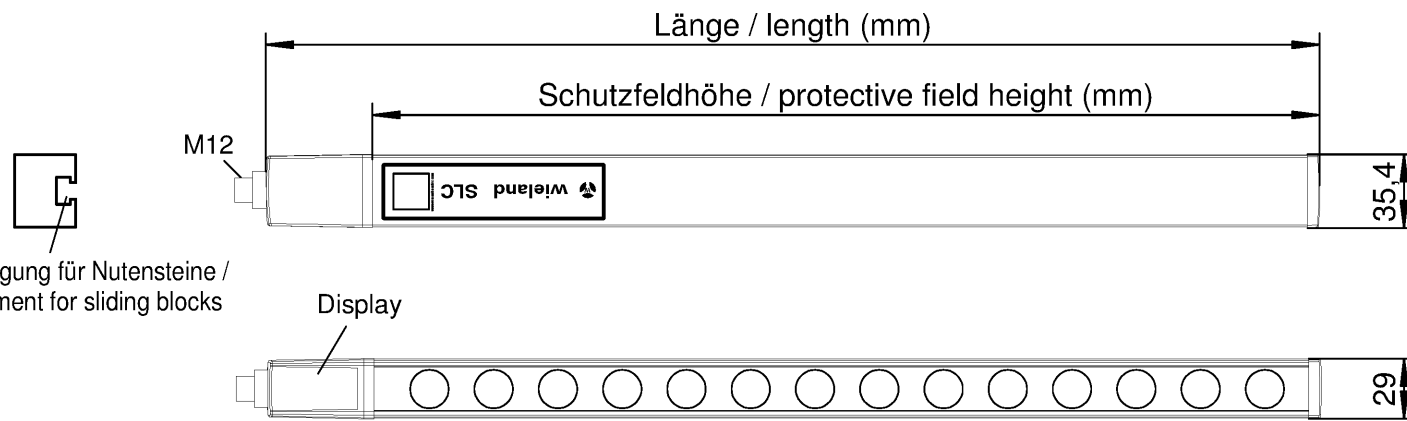
SLC 4 - Empfänger Standard / receiver standard

| 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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|   |   |  |   |
|---|---|--|---|
| Weitere Angaben siehe KATALOG oder eKatalog.<br>Additional data see CATALOG or eCatalog.  |   | www.wieland-electric.com<br>eshop.wieland-electric.com                                   |   |
| ja/yes <input checked="" type="checkbox"/> Stoffverbots- und Deklarationsliste nach WN 5020.010 ist einzuhalten.<br>Conformity with Wieland document WN 5020.010 e (list of prohibited / declarable hazardous substances) to be declared! |   |  |   |
| Freitoleranz nach<br>General tolerance  | CAD-Zeichnung, keine manuellen Änderungen<br>CAD drawing, no manual modifications allowed | 1. Verwendung:<br>First Use:   | Blatt:<br>Sheet:  |
|   | Werkstoff / Material  | 2015<br>gezeichnet<br>drawn<br>30.04.<br>geprüft<br>checked<br>Normgepr.<br>Stand. check | Name<br>Kötzner   |
|   | Maßstab/Scale   | Zeichnung Nr. / Drawing No.<br><b>T R1.512.0150.0 01K</b>                                |   |
|   | Maße in mm / Dimensions are in mm   |  |   |
|   | Datei / File: 40631__01K.DCD  | Ersatz für / Replacement for:  |   |
|   |   | Type   | Benennung / Title<br>Teilespezifikation /<br>Component specification<br><b>Lichtvorhang SLC /<br/>light curtain SLC</b> |
| Index   | Datum / Blatt<br>Date / Sheet   | www.wieland<br>www.wieland-electric.com  |   |
| Änderung / Revision   |   |  |   |

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