



## Safety light curtains deTec4 Core

deTec4 Core Set 14/1800



**Model Name** > [deTec4 Core Set 14/1800](#)  
**Part No.** > [1062906](#)



**This set/kit includes the following items:**

Model Name	Part No.
> <a href="#">UE48-2OS2D2</a>	> <a href="#">6024915</a>
> <a href="#">DOL-1205-G05MC</a>	> <a href="#">6025907</a>
> <a href="#">C4C-EA18010A10000, C4C-SA18010A10000</a>	> <a href="#">1211487, 1211486</a>
> <a href="#">BEF-1SHABPKU4</a>	> <a href="#">2066614</a>

**At a glance**

- Type 4 (IEC 61496), SIL3 (IEC 61508), PL e (EN ISO 13849)
- Absence of blind zones
- Resolution of 14 mm or 30 mm
- Protective field height of 300 mm to 2.100 mm
- Automatic calibration on the protective field width up to 10 m range
- Ambient operating temperature of -30 °C to +55 °C
- Enclosure rating IP 65 and IP 67
- Flexi Loop-compatible M12 male connector

**Your benefits**

- Simple assembly with innovative mounting and no blind zones
- Quick commissioning thanks to integrated LED display and automatic calibration on the protective field width up to 10 m range
- Simply safe: rugged and reliable thanks to enclosure rating IP 67 and an ambient operating temperature down to -30 °C, enabling use in harsh ambient conditions
- Intelligently standardized: M12, 5-pin provide cost reductions and enables a safe series connection with Flexi Loop
- Basic function without configuration effort enables quick replacement when servicing is required



**Technical Data-Sender**

Protective field height:	1,800 mm
Resolution:	14 mm
Protective field range:	0 m ... 7 m
Housing cross-section:	34 mm x 30.7 mm
Type:	Type 4 (EN 61496)
Safety integrity level:	SIL3 (IEC 61508) SILCL3 (EN 62061)

Category:	category 4 (EN ISO 13849)
Performance level:	PL e (EN ISO 13849)
PFHd:	3,7 x 10 <sup>-9</sup> (EN ISO 13849)
TM (mission time):	20 a (EN ISO 13849)
Safe state in the event of a fault:	At least one OSSD is in the OFF state.
Synchronization:	optical synchronisation
Supply voltage:	24 V DC (19.2 V DC ... 28.8 V DC)
Residual ripple:	≤ 2.4 Vpp <sup>1)</sup>
Power consumption typical:	2.16 W
Connection type:	Connector M12, 5-pin
Cable length:	50 m
Protection class:	III (EN 50178)
Enclosure rating:	IP 65 (EN 60529) IP 67 (EN 60529)
Ambient operating temperature:	-30 °C ... 55 °C
Storage temperature:	-30 °C ... 70 °C
Air humidity:	15 % ... 95 %, non-condensing
Vibration resistance:	5 g, 10 Hz ... 55 Hz (EN 60068-2-6)
Shock resistance:	10 g, 16 ms (EN 60068-2-29)
Weight:	1,650 g
Housing material:	Aluminum extruded profile

<sup>1)</sup> Within the limits of V<sub>S</sub>

#### Technical Data-Receiver

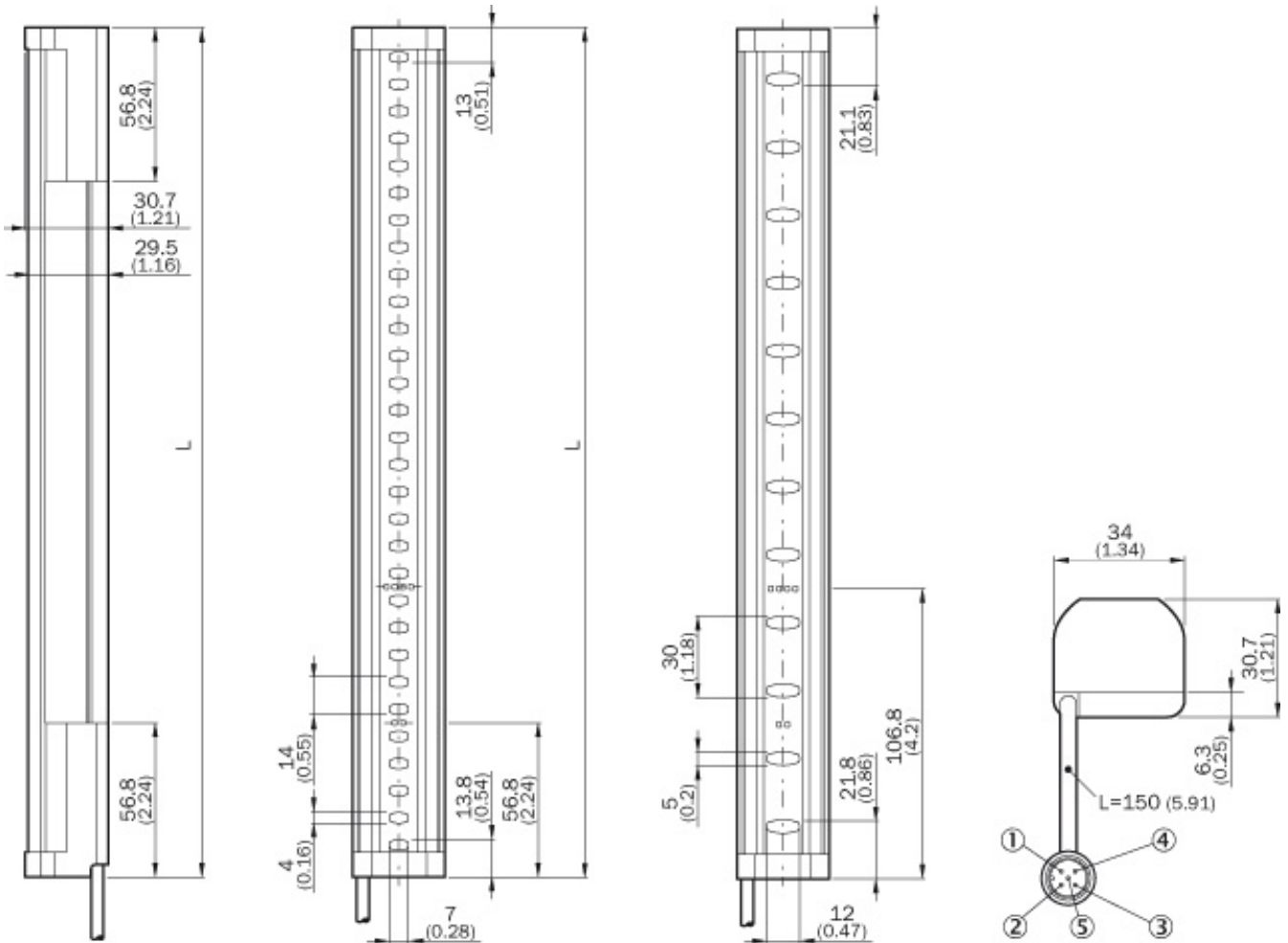
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Resolution:	14 mm
Protective field range:	0 m ... 7 m
Housing cross-section:	34 mm x 30.7 mm
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Safety integrity level:	SIL3 (IEC 61508) SILCL3 (EN 62061)
Category:	category 4 (EN ISO 13849)
Performance level:	PL e (EN ISO 13849)
PFHd:	3,7 x 10 <sup>-9</sup> (EN ISO 13849)
TM (mission time):	20 a (EN ISO 13849)
Safe state in the event of a fault:	At least one OSSD is in the OFF state.
Synchronization:	optical synchronisation
Supply voltage:	24 V DC (19.2 V DC ... 28.8 V DC)
Residual ripple:	≤ 2.4 Vpp <sup>1)</sup>
Power consumption typical:	4.32 W
Safety outputs:	OSSDs
Type of output:	2 PNP semiconductors, short-circuit protected, cross-circuit monitored <sup>2)</sup>
Response time:	20 ms
Switching voltage HIGH:	24 V DC (VS - 2.25 V DC ... VS)
Switching voltage LOW:	2 V DC
Switching current:	300 mA
Connection type:	Connector M12, 5-pin
Cable length:	50 m
Protection class:	III (EN 50178)
Enclosure rating:	IP 65 (EN 60529) IP 67 (EN 60529)

Ambient operating temperature:	-30 °C ... 55 °C
Storage temperature:	-30 °C ... 70 °C
Air humidity:	15 % ... 95 %, non-condensing
Vibration resistance:	5 g, 10 Hz ... 55 Hz (EN 60068-2-6)
Shock resistance:	10 g, 16 ms (EN 60068-2-29)
Weight:	1,660 g
Housing material:	Aluminum extruded profile

1) Within the limits of  $V_S$  2) Applies to the voltage range between -30 V and +30 V

### Dimensional drawing



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