



Safety light curtains C4000 Palletizer Advanced without extension connection

C40E-1603FK010, C40S-1603CD010



receiver

Model Name > C40E-1603FK010
Part No. > 1043161



sender

Model Name > C40S-1603CD010
Part No. > 1041907



At a glance

- Type 4 (IEC 61496), PL e (EN ISO 13849)
- Self-teaching, dynamic blanking detects goods and pallets
- Direction recognition
- Multiple sampling
- Reduced resolution
- Muting alternative
- Beam coding
- Object gap suppression

Your benefits

- Cost-effective: No additional muting sensors or protective measures are required.
- A compact sensor pair reduces the mounting requirements considerably - additional muting sensors are not required
- With the dynamic and self-teaching blanking function, the system can reliably differentiate between people and material - this provides maximum safety
- The assorted feasibility of pallets allows the passage of mesh boxes, Euro pallets and half pallets, increasing plant availability
- Saves storage space: pallets can be parked permanently in the protective field
- One system monitors several conveyor belts, reducing sensor costs
- Quick commissioning: Euro pallets, mesh boxes etc. are detected without any programming



Functions-Sender

Beam coding:	✓
Beam coding (delivery status):	Code 1
Configuration method:	PC with CDS (Configuration and Diagnostic Software)
Safe SICK device communication via EFI/SDL:	✓

Functions-Receiver

Restart interlock:	✓
Restart interlock (delivery status):	External
External device monitoring (EDM):	✓
External device monitoring (delivery status):	Deactivated
Beam coding:	✓
Beam coding (delivery status):	Code 1
Multiple sampling:	✓
Multiple sampling (delivery status):	2 x sampling
Direction monitoring:	✓
Reduced resolution:	✓
Reduced resolution (delivery status):	3 beams
Bypass (with UE402):	✓
Emergency stop/bypass at extension connection:	-
Operating mode switching (with UE402):	✓
Type of blanking:	self-teach dynamic blanking
Type of blanking (delivery status):	palett detection: 0 mm ... 240 mm/2 ... 5 objects, depending on length
Speed monitoring:	✓
Goods detection:	✓
Object size monitoring:	✓
Teach-in of individual objects:	✓
Object gap suppression:	✓
Palett detection:	✓
Object entry monitoring:	✓
SDL interface:	✓
Configuration method:	PC with CDS (Configuration and Diagnostic Software)
Extension connection:	-
Safe SICK device communication via EFI/SDL:	✓

Technical Data-Sender

Protective field height:	1,650 mm
Resolution:	30 mm
Scanning range from ... to:	0.5 m ... 6 m
Scanning range from ... to (delivery status):	0.5 m ... 6 m
Housing length:	1,782 mm
Type:	Type 4 (IEC 61496)
Safety integrity level:	SIL3 (IEC 61508), SILCL3 (IEC 62061)
Category:	category 4 (EN ISO 13849)
Performance level:	PL e (EN ISO 13849)
PFHd (mean probability of a dangerous failure per hour):	1.5 * 1E-08 (EN ISO 13849)
TM (mission time):	20 a (EN ISO 13849)
Supply voltage typical, from, to:	24 V DC, 19.2 V DC, 28.8 V DC
Power consumption:	≤ 1 A
Connection type:	Hirschmann plug M26 x 11 + FE, straight
Connection type configuration connection:	M8 x 4
Maximum connection cable cross-section:	0.75 mm²
Wave length:	950 nm
Protection class:	III (EN 50178)
Enclosure rating:	IP 65 (EN 60529)
Ambient operating temperature:	0 °C ... 55 °C
Vibration resistance (checked to):	5 g (IEC 60068-2-6)

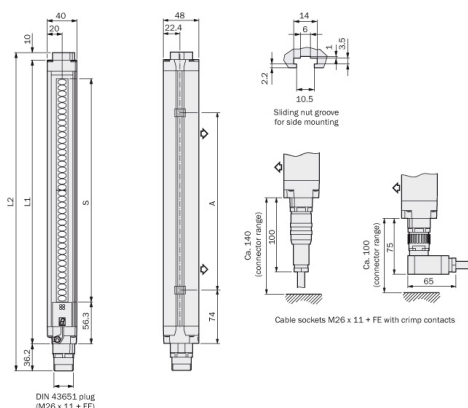
Oscillation frequency from ... to:	10 Hz ... 55 Hz
Shock resistance:	10 g, 16 ms (IEC 60068-2-29)
Weight:	3,390 g

Technical Data-Receiver

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Scanning range from ... to (delivery status):	0.5 m ... 6 m
Housing length:	1,782 mm
Type:	Type 4 (IEC 61496)
Safety integrity level:	SIL3 (IEC 61508), SILCL3 (IEC 62061)
Category:	category 4 (EN ISO 13849)
Performance level:	PL e (EN ISO 13849)
PFHd (mean probability of a dangerous failure per hour):	1.5 * 1E-08 (EN ISO 13849)
TM (mission time):	20 a (EN ISO 13849)
Supply voltage typical, from, to:	24 V DC, 19.2 V DC, 28.8 V DC
Response time:	14 ms ¹⁾
Power consumption:	≤ 1.8 A
Maximum switching current:	500 mA
Wave length:	950 nm
Connection type:	Hirschmann plug M26 x 11 + FE, straight
Connection type configuration connection:	M8 x 4
Maximum connection cable cross-section:	0.75 mm ²
Protection class:	III (EN 50178)
Enclosure rating:	IP 65 (EN 60529)
Ambient operating temperature:	0 °C ... 55 °C
Vibration resistance (checked to):	5 g (IEC 60068-2-6)
Oscillation frequency from ... to:	10 Hz ... 55 Hz
Shock resistance:	10 g, 16 ms (IEC 60068-2-29)
Weight:	3,420 g

¹⁾ Without beam coding, with 1 x sampling, no cascaded systems. Other response times see operating instructions.

Dimensional drawing



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