C4000 Palletizer

Innovative muting alternative for access protection

SICK
Sensor Intelligence.

C4000 Palletizer

Technical data overview

Safety level	PL e, SIL 3, Type 4
Resolution	40 mm / 30 mm (depending on type)
Scanning range	7 m
Protective field height	750 mm ... 1,800 mm (depending on type)
Enclosure rating	IP65
Ambient operating temperature	0 °C ... +55 °C

Product description

The C4000 Palletizer safety light curtain is an innovative muting alternative for access protection in automated material transport systems. Due to its flexible pattern detection system, this protective device is immune to false trips from defective pallets, hanging straps, or shrink wrap remnants. As a result, the C4000 Palletizer is able to provide reliable protection in dangerous areas. And, since additional muting sensors, indicator lamps, separative protective devices, and interlocks are not required, the risk of malfunctions is minimized and the availability of the overall system is optimized. Fast, easy installation saves money and makes the C4000 Palletizer an ideal solution for many entry/exit safeguarding applications.

At a glance

- Type 4 (IEC 61496), SIL3 (EN 62061), PL e (EN ISO 13849)
- Self-teaching, dynamic blanking for detection of goods and pallets
- Direction detection
- Multiple sampling
- Reduced resolution
- Muting alternative
- Beam coding
- Object gap suppression

Your benefits

- Cost-effective due to the savings made on additional muting sensors or other protective measures
- A compact sensor pair significantly reduces mounting effort – additional muting sensors are not required
- With the dynamic and self-teaching blanking function, the system can reliably differentiate between man and material – this provides maximum safety
- Mixed pallet operation allows mesh boxes, Euro pallets, and half pallets to pass, significantly increasing system throughput
- Saves storage space: pallets can be parked permanently in the protective field
- One system monitors multiple conveyor belts, reducing sensor costs
- Quick commissioning: Detects Euro pallets, mesh boxes etc. without any programming

Fields of application

- Storage and conveyor
- Packaging industry

Ordering information

Other models and accessories ➜ www.sick.com/C4000_Palletizer

C4000 Palletizer Advanced without extension connection

- **System connection:** Hirschmann male connector M26, 12-pin

Resolution	Scanning range	Protective field height	Sender		Receiver	
			Type	Part no.	Type	Part no.
30 mm	7 m	750 mm	C40S-0703CD010	1041900	C40E-0703FK010	1043155
		900 mm	C40S-0903CD010	1041901	C40E-0903FK010	1043156
		1,050 mm	C40S-1003CD010	1041902	C40E-1003FK010	1043157
		1,200 mm	C40S-1203CD010	1041903	C40E-1203FK010	1043158
		1,350 mm	C40S-1303CD010	1041904	C40E-1303FK010	1043159
		1,500 mm	C40S-1503CD010	1041905	C40E-1503FK010	1043160
		1,650 mm	C40S-1603CD010	1041907	C40E-1603FK010	1043161
		1,800 mm	C40S-1803CD010	1041908	C40E-1803FK010	1043162

C4000 Palletizer Advanced with extension connection on receiver

- **System connection:** Hirschmann male connector M26, 12-pin
- **Extension connection:** Hirschmann female connector M26, 12 pin

Resolution	Scanning range	Protective field height	Sender		Receiver	
			Type	Part no.	Type	Part no.
30 mm	7 m	750 mm	C40S-0703CD010	1041900	C40E-0703GK010	1043220
		900 mm	C40S-0903CD010	1041901	C40E-0903GK010	1043179
		1,050 mm	C40S-1003CD010	1041902	C40E-1003GK010	1043180
		1,200 mm	C40S-1203CD010	1041903	C40E-1203GK010	1043221
		1,350 mm	C40S-1303CD010	1041904	C40E-1303GK010	1043181
		1,500 mm	C40S-1503CD010	1041905	C40E-1503GK010	1043222
		1,650 mm	C40S-1603CD010	1041907	C40E-1603GK010	1043223
		1,800 mm	C40S-1803CD010	1041908	C40E-1803GK010	1043182

- **System connection:** Hirschmann male connector M26, 12-pin

Resolution	Scanning range	Protective field height	Sender		Receiver	
			Type	Part no.	Type	Part no.
30 mm	7 m	750 mm	C40S-0703CP010	1027100	C40E-0703CK010	1027101
		900 mm	C40S-0903CP010	1027102	C40E-0903CK010	1027103
		1,050 mm	C40S-1003CP010	1027104	C40E-1003CK010	1027105
		1,200 mm	C40S-1203CP010	1027106	C40E-1203CK010	1027107
		1,350 mm	C40S-1303CP010	1027108	C40E-1303CK010	1027109
		1,500 mm	C40S-1503CP010	1027110	C40E-1503CK010	1027111
		1,650 mm	C40S-1603CP010	1027112	C40E-1603CK010	1027113
		1,800 mm	C40S-1803CP010	1027114	C40E-1803CK010	1027115

C4000 Palletizer

Resolution	Scanning range	Protective field height	Sender		Receiver	
			Type	Part no.	Type	Part no.
40 mm	7 m	750 mm	C40S-0704CP010	1027124	C40E-0704CP010	1027125
		900 mm	C40S-0904CP010	1027126	C40E-0904CP010	1027127
		1,050 mm	C40S-1004CP010	1027128	C40E-1004CP010	1027129
		1,200 mm	C40S-1204CP010	1027130	C40E-1204CP010	1027131
		1,350 mm	C40S-1304CP010	1027132	C40E-1304CP010	1027133
		1,500 mm	C40S-1504CP010	1027134	C40E-1504CP010	1027135
		1,650 mm	C40S-1604CP010	1027136	C40E-1604CP010	1027137
		1,800 mm	C40S-1804CP010	1027138	C40E-1804CP010	1027139

C4000 Palletizer Standard

• **System connection:** Hirschmann male connector M26, 12-pin

Resolution	Scanning range	Protective field height	Sender		Receiver	
			Type	Part no.	Type	Part no.
40 mm	7 m	750 mm	C40S-0704CD010	1043445	C40E-0704FP010	1043171
		900 mm	C40S-0904CD010	1043446	C40E-0904FP010	1043172
		1,050 mm	C40S-1004CD010	1043447	C40E-1004FP010	1043173
		1,200 mm	C40S-1204CD010	1043448	C40E-1204FP010	1043174
		1,350 mm	C40S-1304CD010	1043449	C40E-1304FP010	1043175
		1,500 mm	C40S-1504CD010	1043450	C40E-1504FP010	1043176
		1,650 mm	C40S-1604CD010	1043451	C40E-1604FP010	1043177
		1,800 mm	C40S-1804CD010	1043452	C40E-1804CP010	1043178

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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