



1100

deTec

SAFETY LIGHT CURTAINS

SICK
Sensor Intelligence.



Illustration may differ

Ordering information

System plugs for deTec4, deTec4 HG, deTec4 Ex II 3GD

Functions	System connection	Extension connection	Type	Part no.
SP1	Male connector M12, 5-pin	Female connector M12, 5-pin (RES, EDM, ADO, IO-Link, cascading)	1100	2076833

The system plug is suitable for deTec and deTem. Additional information can be found in the technical data.

Other models and accessories → www.sick.com/deTec



Detailed technical data

Features

System part	System plug
Function range	SP1
Items supplied	System plug

Functions

Protective operation	✓
Automatic calibration of the protective field width	✓
Restart interlock	✓
External device monitoring (EDM)	✓
Cascading	✓

Interfaces

System connection	Male connector M12, 5-pin
PIN assignment	See table in "Pin assignment" graphic
Length of cable	200 mm
Cable diameter	5 mm
Extension connection	Female connector M12, 5-pin
Length of cable	150 mm
Cable diameter	5 mm
Configuration method	DIP switch
Application diagnostic output (ADO)	✓
IO-Link	✓

Electrical data

Protection class	III (IEC 61140)
Supply voltage V_S	24 V DC (19.2 V ... 28.8 V)
Ripple	≤ 10 %

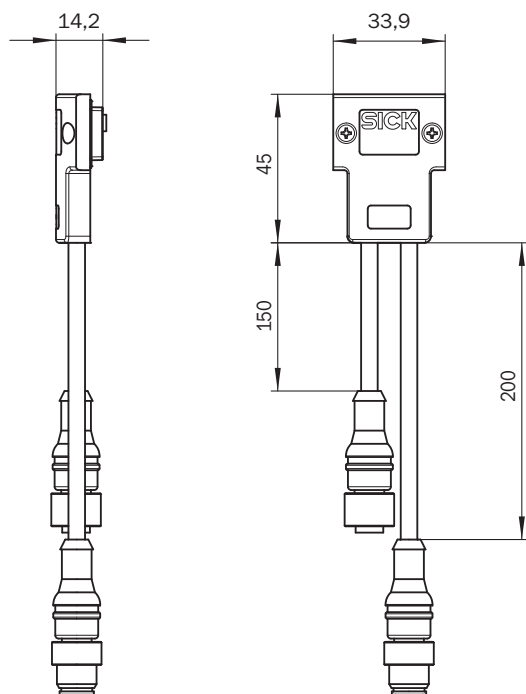
Ambient data

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 (IEC 60068-2-6)
Shock resistance	10 g, 16 ms (IEC 60068-2-27)

Classifications

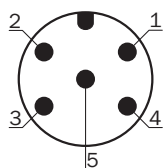
ECLASS 5.0	27272704
ECLASS 5.1.4	27272704
ECLASS 6.0	27272704
ECLASS 6.2	27272704
ECLASS 7.0	27272704
ECLASS 8.0	27272704
ECLASS 8.1	27272704
ECLASS 9.0	27272704
ECLASS 10.0	27272704
ECLASS 11.0	27272704
ECLASS 12.0	27272704
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC 16.0901	46171620

Dimensional drawing (Dimensions in mm (inch))



Pin assignment

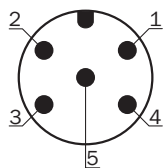
deTem4 A/P system connection



Pin	Active unit
1	+24 V DC
2	OSSD1
3	0 V DC
4	OSSD2
5	N. c.

For details see operating instructions

deTec4 system connection

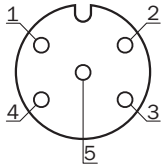


Pin	Sender	Receiver
1	+24 V DC	+24 V DC

Pin	Sender	Receiver
2	In2 Laser alignment aid button	OSSD1
3	0 V DC	0 V DC
4	In1 Laser alignment aid switch	OSSD2
5	MFP1	MFP1

For details see operating instructions

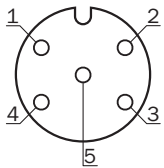
deTem4 A/P extension connection



Pin	Active unit
1	+24 V Out
2	In1 EDM
3	0 V Out
4	In2 RES
5	MFP2 ADO IO-Link

For details see operating instructions

deTec4 extension connection









Pin	Sender	Receiver
1	+24 V Out	+24 V Out
2	N. c.	In1 EDM
3	0 V Out	0 V Out
4	Sync-Out	In2 RES
5	MFP2	MFP2 ADO IO-Link

For details see operating instructions

Recommended accessories

Other models and accessories → www.sick.com/deTec

	Brief description	Type	Part no.
Connection modules			
	IO-Link V1.1 Class A port, USB2.0 port, optional external power supply 24V / 1A	IOLA2US-01101 (SiLink2 Master)	1061790
	Connector for connecting an IO-Link master and up to 2 muting sensors to a safety light curtain or a multiple light beam safety device	IO-Link connector	2092757
Distributors			
	<ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 5-pin, A-coded • Connection type head B: Male connector, M12, 5-pin, A-coded • Connection type head C: Female connector, M12, 5-pin, A-coded • Description: T-piece for simultaneous connection to sender and receiver, splits the cable from the control cabinet to the sender and receiver • Note: 5-pin 	DSC-1205T000025KM0	6030664
Sensor Integration Gateway			
	<ul style="list-style-type: none"> • Further functions: Web server integrated, USB connection for easy configuration of the SIG200 Sensor Integration Gateway with SOPAS ET, the engineering tool from SICK, logic editor is available for easy configuration of logic functions • Connection CONFIG: 1 x M8, 4-pin female connector, USB 2.0 (USB-A) • Logic editor: yes • Communication interface: IO-Link, USB, Ethernet, PROFINET, REST API • Product category: IO-Link Master 	SIG200-0A0412200	1089794
	<ul style="list-style-type: none"> • Description: The SIG200 Sensor Integration Gateway is an IO-Link master with 4 configurable ports through which the IO-Link devices or standard inputs or standard outputs can be connected to a PLC or cloud application using the REST API. • Further functions: Web server integrated, USB connection for easy configuration of the SIG200 Sensor Integration Gateway with SOPAS ET, the engineering tool from SICK, logic editor is available for easy configuration of logic functions • Connection CONFIG: 1 x M8, 4-pin female connector, USB 2.0 (USB-A) • Logic editor: yes • Communication interface: IO-Link, USB, Ethernet, EtherNet/IP™, REST API • Product category: IO-Link Master 	SIG200-0A0512200	1089796
	<ul style="list-style-type: none"> • Further functions: Web server integrated, USB connection for easy configuration of the SIG200 Sensor Integration Gateway with SOPAS ET, the engineering tool from SICK, logic editor is available for easy configuration of logic functions • Connection CONFIG: 1 x M8, 4-pin female connector, USB 2.0 (USB-A) • Logic editor: yes • Communication interface: IO-Link, USB, Ethernet, REST API • Product category: IO-Link Master 	SIG200-0A0G12200	1102605

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.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com