



SP2-2100

System plugs deTec and deTem

SAFETY LIGHT CURTAINS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
SP2-2100	2093098

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/System_plugs_deTec_and_deTem



Detailed technical data

Features

Compatible devices	deTec4, deTem4, deTem4 A/P
Function range	SP2
System connection	Male connector M12, 5-pin
Extension connection	Female connector M12, 5-pin
IO-Link possible on the extension connection	✓
Configuration method	DIP switch
Items supplied	System plug

Functions

Protective operation	✓
Automatic calibration of the protective field width	✓
Restart interlock	✓
External device monitoring (EDM)	✓
Application diagnostic output (ADO)	✓
Cascading	✓
Smart presence detection	✓
Reduced resolution	✓
Dynamic protective field width during operation	✓
Sender with reduced scanning range	✓
Differentiation between person and material	
2-signal muting	✓
Smart Box Detection	✓

Interfaces

PIN assignment	See table in "Pin assignment" graphic
System connection	Male connector M12, 5-pin
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

Electronics

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

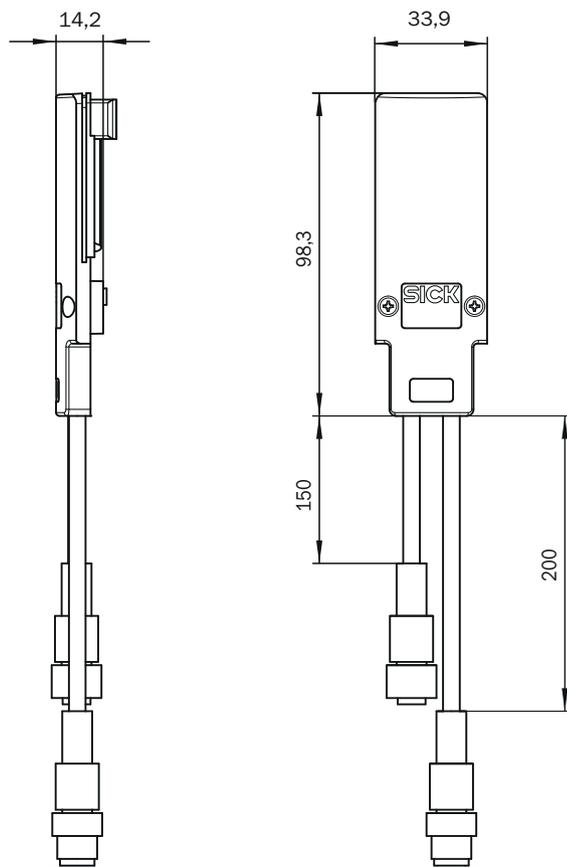
Ambient data

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

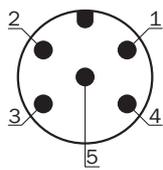
ECLASS 5.0	27272790
ECLASS 5.1.4	27272790
ECLASS 6.0	27272790
ECLASS 6.2	27272790
ECLASS 7.0	27272790
ECLASS 8.0	27272790
ECLASS 8.1	27272790
ECLASS 9.0	27272792
ECLASS 10.0	27272792
ECLASS 11.0	27272792
ECLASS 12.0	27272792
ETIM 5.0	EC011349
ETIM 6.0	EC011349
ETIM 7.0	EC011349
ETIM 8.0	EC011349
UNSPSC 16.0901	46171620

Dimensional drawing (Dimensions in mm (inch))



Pinouts

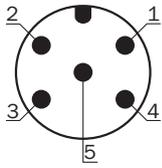
deTem4 A/P system connection



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

For details see operating instructions

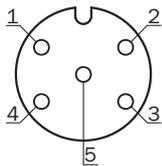
deTec4 system connection



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

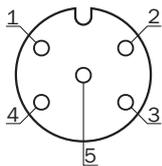
deTem4 A/P extension connection



Pin	Active unit
1	+24 V Out
2	In1 EDM Muting
3	0 V Out
4	In2 RES Muting
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 Muting
3	0 V Out	0 V Out
4	Sync-Out	In2

Pin	Sender	Receiver
		RES Muting
5	MFP2	MFP2 ADO IO-Link
For details see operating instructions		

Recommended accessories

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

	Brief description	Type	Part no.
Connection modules			
	IOLA2US-01101 (SiLink2 Master)	IOLA2US-01101 (SiLink2 Master)	1061790
	<ul style="list-style-type: none"> Description: 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
	<ul style="list-style-type: none"> Description: Connector for connecting 2 muting sensors and a muting lamp to a safety light curtain or a multiple light beam safety device 	Muting connector	2092758
	<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-1205T000025KMO	6030664

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