SP2-2300

System plugs deTec and deTem

SYSTEM PLUGS AND EXTENSION MODULES

SICK
Sensor Intelligence.

SP2-2300 | System plugs deTec and deTem

Ordering information

Type	part no.
SP2-2300	2093100

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, 8-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, 8-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)

Certificates

EU declaration of conformity	✓

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

14,2

33,9

98,3

150

200
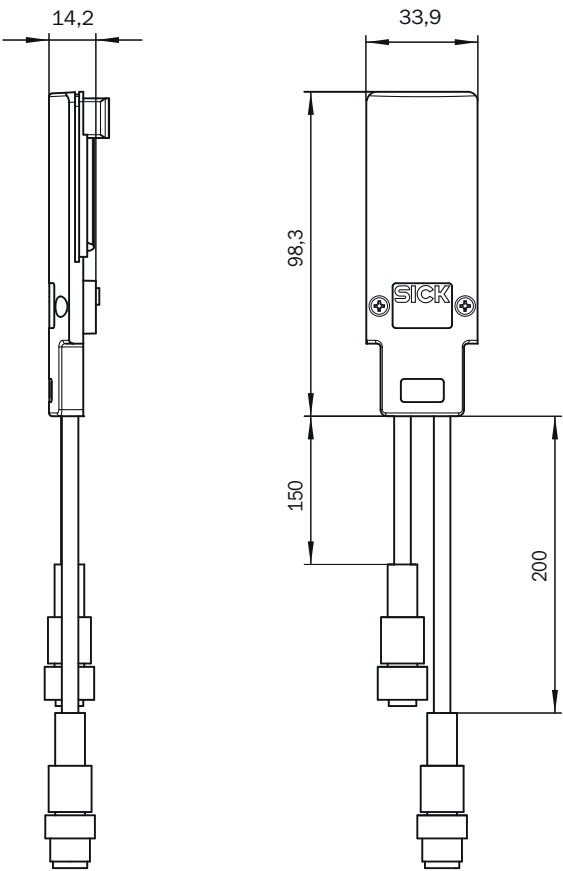
Dimensions in mm (inch)

Pinouts deTem4 A/P extension connection
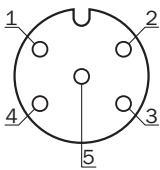
Pin	Active unit
1	+24 V Out
2	In1EDMMuting
3	0 V Out
4	In2RESMuting
5	MFP2ADOIO-Link
For details see operating instructions	

Pinouts deTec4 extension connection
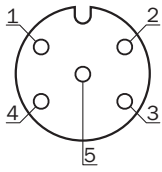
Pin	Sender	Receiver
1	+24 V Out	+24 V Out
2	N. c.	In1EDMMuting
3	0 V Out	0 V Out
4	Sync-Out	In2RESMuting
5	MFP2	MFP2ADOIO-Link
	For details see operating instructions	

Pinouts deTem4 A/P system connection
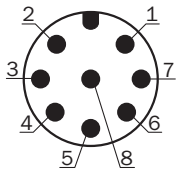
Pin	Active unit
1	In3RESOverride
2	+24 V DC
3	MFP3ADO
4	In4EDMMuting
5	OSSD1
6	OSSD2
7	0 V DC
8	N. c.
	For details see operating instructions

Pinouts deTec4 system connection
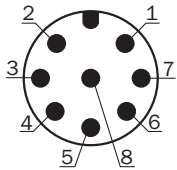
Pin	Sender	Receiver
1	N. c.	In3RESOverride
2	+24 V DC	+24 V DC

Pin	Sender	Receiver
3	N. c.	MFP3ADO
4	N. c.	In4EDMMuting
5	In2Laser alignment aid button	OSSD1
6	In1Laser alignment aid switch	OSSD2
7	0 V DC	0 V DC
8	MFP1	MFP1
For details see operating instructions		

Recommended accessories

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

	Brief description	Type	part no.
connectors and cables			
	• **Connection type head A:** Female connector, M12, 8-pin, A-coded • **Connection type head B:** Female connector, M12, 8-pin, A-coded • **Connection type head C:** Male connector, M12, 8-pin, A-coded • **Description:** Unshielded	DSC-1208T000025KM0	6058647
		IO-Link connector	2092757
		Muting connector	2092758

	Brief description	Type	part no.
network devices			
		IOLA2US-01101 (SiLink2 Master)	1061790
		SIG200-0A0G12200	1102605
		SIG200-0A0412200	1089794
		SIG200-0A0512200	1089796

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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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