

deTec4 Kits

SIMPLE. RELIABLE. INTELLIGENT

New SICK Safety Light Curtain Kits

SICK has 70 years' experience in machine safety and can provide you with customized solutions and services that deliver the expertise that is necessary to implement safety in your machines in compliance with directives.

In partnering with us, SICK is capable of making a contribution to the ongoing development of the safety culture in your organization with the aim of:

- ✓ Improving the safety of existing machines and systems
- ✓ Ensuring integral safety on new machines and systems

SICK has provided deTec kits to ease the ordering process and the management of part numbers for a complete solution.

Which deTec kit should I choose?

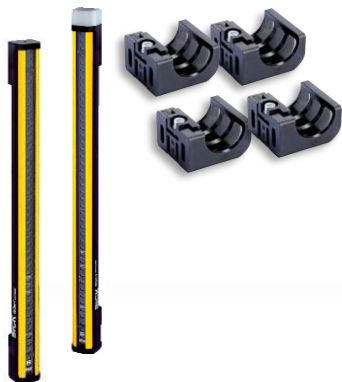
deTec4 kit

- ✓ Comprehensive alignment assistance
- ✓ Adaptability and increased functionality
- ✓ Faster device exchange due to system plug concept
- ✓ Predictive maintenance and simple troubleshooting

deTec4 Core kit

- ✓ Standalone safeguard only applications
- ✓ Limited functionality and diagnostics

deTec4 kit



This kit includes a sender, receiver, Flex Fix mounting kit. The deTec4 is equipped for the future with on-board IO-Link and NFC for diagnostics. Also optional are kits that include the end cap LED on the receiver for status indication.

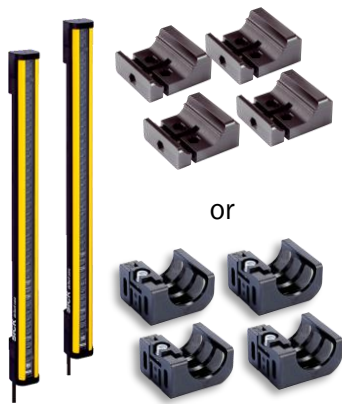
Additional Features

- ✓ Integrated laser alignment
- ✓ End cap LED for status indication
- ✓ DIP switch configuration
- ✓ Display synchronization of top and bottom beams
- ✓ Application diagnostic output
- ✓ IO-Link
- ✓ NFC
- ✓ Plus all deTec4 Core Features

Additional Functionality

- ✓ Beam coding
- ✓ Restart interlock
- ✓ External device monitoring
- ✓ Cascading
- ✓ Smart presence detection
- ✓ Reduced resolution
- ✓ Dynamic protective field width during operation
- ✓ Sender with reduced scanning range
- ✓ Muting
- ✓ Plus all deTec4 Core functionality

deTec4 Core kit



This kit includes a sender, receiver, and Quick Fix or Flex Fix mounting kit. The deTec4 Core has limited functionality but may be a best fit solution for basic applications.

Features

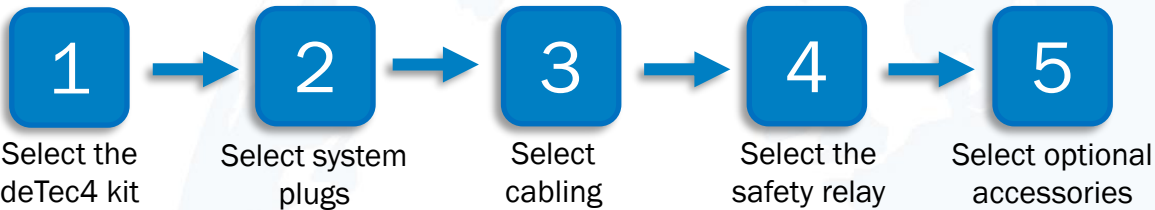
- ✓ Resolution: 14/30 mm
- ✓ Scanning range: 10/15 m
- ✓ Protected field height: 300–2100 mm
- ✓ No blind zones

Functionality

- ✓ Protective operation
- ✓ Automatic calibration of the protective field width

Selecting a deTec4

Use this step-by-step guide for selecting your deTec4 components



1 Select the deTec4 kit

deTec4 kit includes



Beam resolution: 14mm or 30 mm

Receiver: with or without end cap LED

Protected Field Height:

- 300 MM
- 450 MM
- 600 MM
- 750 MM
- 900 MM
- 1050 MM
- 1200 MM
- 1350 MM
- 1500 MM
- 1650 MM
- 1800 MM
- 1950 MM
- 2100 MM

| | 14 MM W/O LED | 14 MM W/ LED | 30 MM W/O LED | 30 MM W/ LED |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| Kit Part Number | Kit Part Number | Kit Part Number | Kit Part Number | Kit Part Number |
| 1116085 | 1116111 | 1116098 | 1116124 | |
| 1116086 | 1116112 | 1116099 | 1116125 | |
| 1116087 | 1116113 | 1116100 | 1116126 | |
| 1116088 | 1116114 | 1116101 | 1116127 | |
| 1116089 | 1116115 | 1116102 | 1116128 | |
| 1116090 | 1116116 | 1116103 | 1116129 | |
| 1116091 | 1116117 | 1116104 | 1116130 | |
| 1116092 | 1116118 | 1116105 | 1116131 | |
| 1116093 | 1116119 | 1116106 | 1116132 | |
| 1116094 | 1116120 | 1116107 | 1116133 | |
| 1116095 | 1116121 | 1116108 | 1116134 | |
| 1116096 | 1116122 | 1116109 | 1116135 | |
| 1116097 | 1116123 | 1116110 | 1116136 | |

Selecting a deTec4

Use this step-by-step guide for selecting your deTec4 components

2 Select System Plugs (See next page for system plug functionality)

System Plugs: 2x required, one for sender & one for receiver



Type 1000 P/N 2076832*



Type 1100 P/N 2076833*



Type 1200 P/N 2076834*



Type 1300 P/N 2076835*



Type 2000 P/N 2093097



Type 2100 P/N 2093098



Type 2200 P/N 2093099



Type 2300 P/N 2093100

*For the sender stick always select system plug Type_xxxx

[Click here for a system plug tutorial](#)

3 Select Cabling

Cables: 2x required, one for sender & one for receiver

| Type | Figure | Length | Model Name | P/N |
|------------------------------|--------|--------|--------------------|---------|
| Female connector, M12, 5-pin | | 2 m | YF2A15-020UB5XLEAX | 2095617 |
| | | 5 m | YF2A15-050UB5XLEAX | 2095618 |
| | | 9 m | YF2A15-090UB5XLEAX | 2095846 |
| | | 10 m | YF2A15-100UB5XLEAX | 2095619 |
| | | 15 m | YF2A15-150UB5XLEAX | 2095620 |
| | | 20 m | YF2A15-200UB5XLEAX | 2095614 |
| Female connector, M12, 8-pin | | 2 m | YF2A18-020UB5XLEAX | 2095652 |
| | | 5 m | YF2A18-050UB5XLEAX | 2095653 |
| | | 10 m | YF2A18-100UB5XLEAX | 2095654 |
| | | 15 m | YF2A18-150UB5XLEAX | 2095679 |
| | | 20 m | YF2A18-200UB5XLEAX | 2095680 |
| | | 30 m | YF2A18-300UB5XLEAX | 2095681 |

*If SP1200, 1300, 2200, 2300, use M12, 8-pin cables (not shown) [Click here for a system plug tutorial](#)

4 Select Safety Relay

Safety Relays



RLY3-OSSD100 P/N 1085343



RLY3-OSSD200 P/N 1085344

[Click here for a safety relay tutorial](#)

5 Select Optional Accessories

Accessories



deTec4 accessories can be found at www.sickusa.com







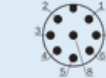
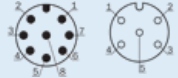






























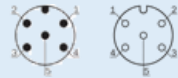
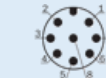
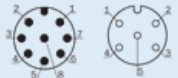












































System Plug Selection Table

Understand which system plug works best with your application!

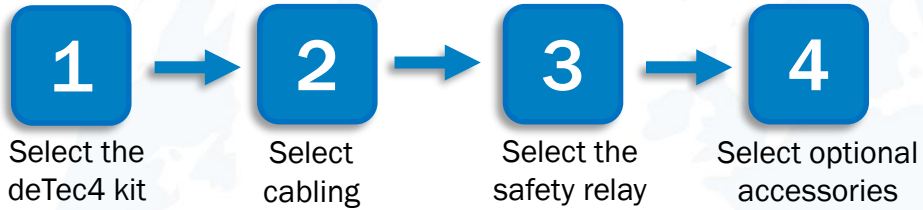
Key:

| | |
|---|---|
|  | If using with cascade configuration, this system plug will only allow these functionalities when used as a final device in the cascade. If these functionalities are needed in H (of H-G configuration) or H-G (of H-G-G configuration) use the 1300 / 2300 System Plug |
|  | No special considerations required |

| | 1000 2076832 | 1100 2076833 | 1200 2076834 | 1300 2076835 |
|--|---|---|--|---|
| System Plug Image |  |  |  |  |
| Connector(s) Image |  |  |  |  |
| Compatible with Sender |  |  |  |  |
| Compatible with Receiver |  |  |  |  |
| Restart Interlock | |  |  |  |
| External Device Monitoring | |  |  |  |
| Application Diagnostic Output | |  |  |  |
| Cascade | |  | |  |
| Dynamic Protective Field Width | | | | |
| Reduced Resolution | | | | |
| Smart Presence Detection | | | | |
| Smart Box Detection (14 mm resolution only) | | | | |
| 2-Signal Muting (Also Requires Muting Connector: 2092758) | | | | |
| Beam Coding |  |  |  |  |
| IO-Link (Also Requires IO-Link Connector: 2092757) | |  | |  |
| | 2000 2093097 | 2100 2093098 | 2200 2093099 | 2300 2093100 |
| System Plug Image |  |  |  |  |
| Connector(s) Image |  |  |  |  |
| Compatible with Sender | |  |  |  |
| Compatible with Receiver |  |  |  |  |
| Restart Interlock | |  |  |  |
| External Device Monitoring | |  |  |  |
| Application Diagnostic Output | |  |  |  |
| Cascade | |  | |  |
| Dynamic Protective Field Width |  |  |  |  |
| Reduced Resolution |  |  |  |  |
| Smart Presence Detection |  |  |  |  |
| Smart Box Detection (14 mm resolution only) |  |  |  |  |
| 2-Signal Muting (Also Requires Muting Connector: 2092758) | |  | |  |
| Beam Coding |  |  |  |  |
| IO-Link (Also Requires IO-Link Connector: 2092757) | |  | |  |

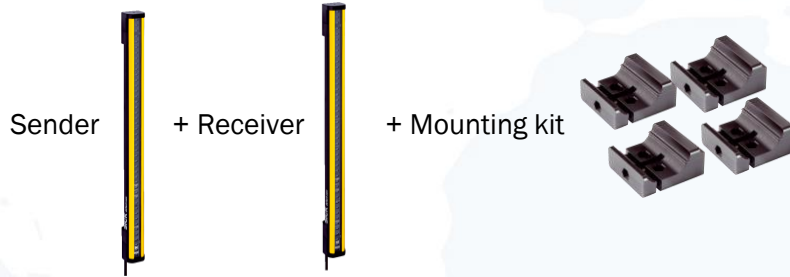
Selecting a deTec4 Core (Quick Fix)

Use this step-by-step guide for selecting your deTec4 Core components

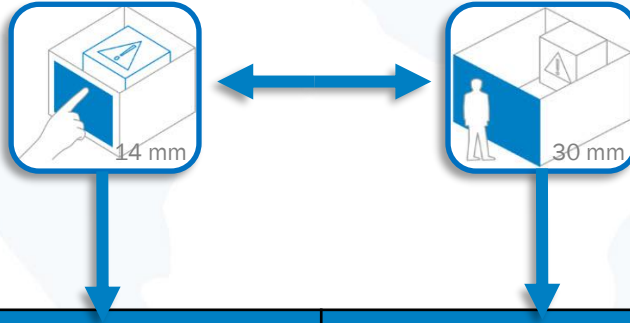


1 Select the deTec4 kit with Quick Fix Brackets

deTec4 kit includes



Beam resolution: 14mm or 30 mm



Protected Field Height:

| | 14 MM | 30 MM |
|----------------|-----------------|-----------------|
| | Kit Part Number | Kit Part Number |
| 300 MM | 1063362 | 1063375 |
| 450 MM | 1063363 | 1063376 |
| 600 MM | 1063364 | 1063377 |
| 750 MM | 1063365 | 1063378 |
| 900 MM | 1063366 | 1063379 |
| 1050 MM | 1063367 | 1063380 |
| 1200 MM | 1063368 | 1063381 |
| 1350 MM | 1063369 | 1063382 |
| 1500 MM | 1063370 | 1063383 |
| 1650 MM | 1063371 | 1063384 |
| 1800 MM | 1063372 | 1063385 |
| 1950 MM | 1063373 | 1063386 |
| 2100 MM | 1063374 | 1063387 |

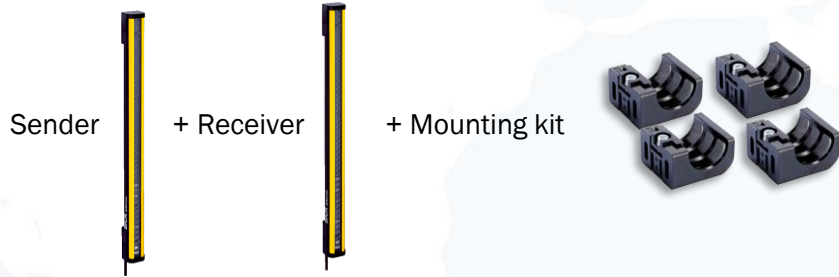
Selecting a deTec4 Core (Flex Fix)

Use this step-by-step guide for selecting your deTec4 Core components

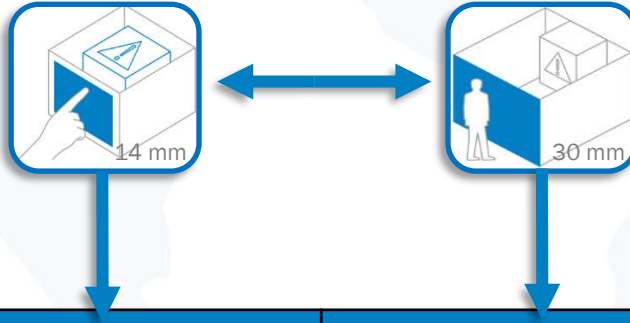


1 Select the deTec4 kit with Flex Fix Brackets

deTec4 kit includes



Beam resolution: 14 mm or 30 mm



Protected Field Height:

| | 14 MM | 30 MM |
|---------|-----------------|-----------------|
| | Kit Part Number | Kit Part Number |
| 300 MM | 1143565 | 1143578 |
| 450 MM | 1143566 | 1133193 |
| 600 MM | 1143567 | 1143579 |
| 750 MM | 1143568 | 1133192 |
| 900 MM | 1143569 | 1133191 |
| 1050 MM | 1143570 | 1133190 |
| 1200 MM | 1143571 | 1143580 |
| 1350 MM | 1143572 | 1143581 |
| 1500 MM | 1143573 | 1143582 |
| 1650 MM | 1143574 | 1143583 |
| 1800 MM | 1143575 | 1143584 |
| 1950 MM | 1143576 | 1143585 |
| 2100 MM | 1143577 | 1143586 |


- 300 MM
- 450 MM
- 600 MM
- 750 MM
- 900 MM
- 1050 MM
- 1200 MM
- 1350 MM
- 1500 MM
- 1650 MM
- 1800 MM
- 1950 MM
- 2100 MM

Selecting a deTec4 Core

Use this step-by-step guide for selecting your deTec4 Core components

2 Select Cabling

Cables: 2x required, one for sender & one for receiver

| Type | Figure | Length | Model Name | P/N |
|------------------------------|---|--------|--------------------|---------|
| Female connector, M12, 5-pin |  | 2 m | YF2A15-020UB5XLEAX | 2095617 |
| | | 5 m | YF2A15-050UB5XLEAX | 2095618 |
| | | 9 m | YF2A15-090UB5XLEAX | 2095846 |
| | | 10 m | YF2A15-100UB5XLEAX | 2095619 |
| | | 15 m | YF2A15-150UB5XLEAX | 2095620 |
| | | 20 m | YF2A15-200UB5XLEAX | 2095614 |
| | | 30 m | YF2A15-300UB5XLEAX | 2095621 |

3 Select Safety Relay

Safety Relay



RLY3-OSSD200 P/N 1085344

*deTec4 Core does not have EDM functionality

[Click here for a safety relay tutorial](#)

4 Select Optional Accessories

Accessories

deTec4 accessories can be found at www.sickusa.com

