





SYS/BOT-URSP4020101S31

Safe Robotics Area Protection

SAFETY SYSTEMS FOR ROBOTS



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SAFETY SYSTEMS FOR ROBOTS



Ordering information

sBot Speed

Safety con- troller in- cluded	Safety laser scanner included	Protective field range	Product type	Туре	Part no.
Flexi Soft (CPU1)	S300 Mi- ni Remote	3 m	System (hard- ware and software)	SYS/BOT- URSP4020101S31	1117270

A safety system consists of optimized hardware, tested functional logic (software) and detailed documentation for easy integration in compliance with relevant standards.

With purchase, you accept the product description available under Downloads > Documentation in connection with the General Terms and Conditions for the Supply of Software Products (AVB Software SICK).

Other models and accessories -> www.sick.com/Safe_Robotics_Area_Protection

Detailed technical data

Features

VariantBiol Speed - URProduct typeSystem (hardware and software)Robot controllerUniversal Robots: UR3, UR5, UR10Stopping process of the robotWith speed reductionRobot restartAutomaticRobot restartDiscrete //OSSafe state in the event of a faultDiscrete //OSSafety laser scannerSi00 Mini RemoteProtective field ram3 mSafety taskHazardous area protectionRobit operating temperature-00 °C ··· 450 °CSafety controller included90% at 50 °C (EN 61131-2)Safety controller included20 °C ··· 450 °CSafety controller includedPorte (POUI)Safety controller includedPoint Singer Controller includedProtective field ram20 °C ··· 450 °CSafety controller includedPoint Singer Controller includedProtective field ramSinger Controller includedProtective field ramPoint Singer Controller includedProtective field ramSinger Controller includedPerformance levelPi d (SO 13849-1)Ferformance levelPi d (SO 13849-1)Ferformance levelSind Mini Remote safely laser scanner PS/SOPU1 Field Sint Field S		
Robot controller Universal Robots: UR3, UR5, UR10 Stopping process of the robot With speed reduction Robot restart Automatic Interfaces Discrete I/Os Safe state in the event of a fault The safety-related semiconductor outputs are in the OFF state. Safety laser scanners S300 Mini Remote Protective field rang 3 m Safety task Hazardous area protection Ambient operating temperature -10 °C +50 °C Storage temperature -20 °C +50 °C Safety controller included Flexi Soft (CPU1) Safety controller type Programmable Voltage supply Supply voltage Vs Supply voltage Vs 24 V DC (16.8 V DC 28.8 V DC) Performance level PL d (SO 13849-1) Items supplied S300 Mini Remote safety laser scanner SYA-SPUT Flexi Soft main module Software (Flexi Soft system plug 3 × K33×TIO Flexi Soft main module Software (Flexi Soft Designer project file with functional logic, pre-configuration in Safety Designer project file with functional logic, pre-configuration in Safety Designer project file with functional logic, pre-configuration in Safety Designer project file with functional logic, pre-configuration in Safety Designer project file with functional logic, pre-configuration in Safety Designer project file with functional logic, pre-conf	Variant	sBot Speed – UR
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Storage temperature -20 ° C +50 ° C Air humidity 90% at 50 ° C (EN 61131-2) Safety controller included Flexi Soft (CPU1) Safety controller type Programmable Voltage supply 24 V DC (16.8 V DC 28.8 V DC) Performance level PL d (ISO 13849-1) Items supplied S300 Mini Remote safety laser scanner FX3-CPU1 Flexi Soft main module Soft V/O modul	Safety task	Hazardous area protection
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Supply voltage Vs 24 V DC (16.8 V DC 28.8 V DC) Performance level PL d (ISO 13849-1) Items supplied S300 Mini Remote safety laser scanner FX3-CPU1 Flexi Soft main module FX3-CPU1 Flexi Soft system plug s x FX3-XTIO Flexi Soft J/O module Software (Flexi Soft Designer project file with functional logic, pre-configuration in Safety Designer file for S300 mini remote safety laser scanner and UR-specific settings), operating in-	Safety controller type	Programmable
Performance level PL d (ISO 13849-1) Items supplied S300 Mini Remote safety laser scanner FX3-CPU1 Flexi Soft main module FX3-CPU1 Flexi Soft main module FX3-MPL0 Flexi Soft system plug 3 x FX3-XTI0 Flexi Soft l/0 module Software (Flexi Soft Designer project file with functional logic, pre-configuration in Safety Designer file for S300 mini remote safety laser scanner and UR-specific settings), operating in-	Voltage supply	
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FX3-CPU1 Flexi Soft main module FX3-MPL0 Flexi Soft system plug 3 x FX3-XTIO Flexi Soft I/O module Software (Flexi Soft Designer project file with functional logic, pre-configuration in Safety De- signer file for S300 mini remote safety laser scanner and UR-specific settings), operating in-	Performance level	PL d (ISO 13849-1)
	Items supplied	FX3-CPU1 Flexi Soft main module FX3-MPLO Flexi Soft system plug 3 x FX3-XTIO Flexi Soft I/O module Software (Flexi Soft Designer project file with functional logic, pre-configuration in Safety De- signer file for S300 mini remote safety laser scanner and UR-specific settings), operating in-

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Functions

Emergency stop	
Shut down in the event of an emergency situation	✓
Prevent unexpected restarting after an emer- gency stop	
Initiate a safety stop	
Automated reset	✓
Safety-rated monitored speed	
Trigger safety-rated monitored speed	✓
Switch field sets	✓
Operating mode	
Operating mode selection (implemented in safe- ty system)	✓
Enabling device - manual operating mode (im- plemented in safety system)	

Classifications

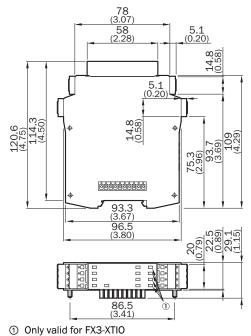
ECLASS 5.0	27279090
ECLASS 5.1.4	27279090
ECLASS 6.0	27279090
ECLASS 6.2	27279090
ECLASS 7.0	27279090
ECLASS 8.0	27279090
ECLASS 8.1	27279090
ECLASS 9.0	27279090
ECLASS 10.0	27279090
ECLASS 11.0	27279090
ECLASS 12.0	27279090
ETIM 5.0	EC001449
ETIM 6.0	EC001449
ETIM 7.0	EC001449
ETIM 8.0	EC001449
UNSPSC 16.0901	32151705

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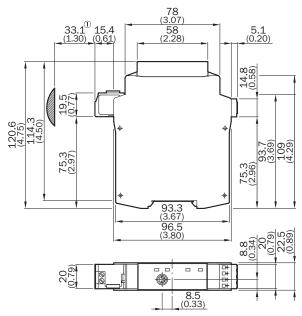
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Dimensional drawing (Dimensions in mm (inch))

FX3-XTIO, FX3-XTDI



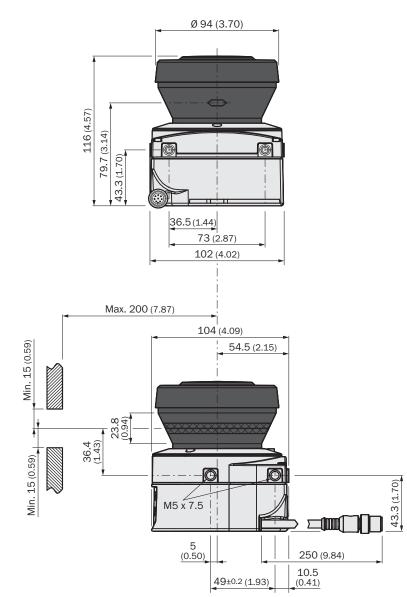
FX3-CPU1, FX3-CPU2



① Approximate connector range

SAFETY SYSTEMS FOR ROBOTS

Laser scanner



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



Online data sheet

