SICK.COM

DATA SHEET

Safety hardware design

Solution Engineering
Engineering and integration

SICK Sensor Intelligence

ENGINEERING AND INTEGRATION

Safety hardware design

ORDERING INFORMATION

Type	part no.
Safety hardware design	On request

Further device versions and accessories at www.sick.com/Solution_Engineering

DETAILED TECHNICAL DATA

FEATURES

Product version	Safety hardware design
Product area	Industrial Safety
Prerequisites	The draft is based on a risk assessment and a safety concept Circuit diagrams of the machine manufacturer (electrical, pneumatic, hydraulic) Design documentation of the machine manufacturer Special requirements must be communicated and provided by the client prior to offer acceptance, e.g., factory standards, operating equipment specifications, performance level specifications
Range of services, brief	Efficient safety hardware design including selection and connection of suitable safety-related controller parts Identification of the achieved performance level (PL) Dimensioning of physical guards Calculation of stopping times and the required safety distances
Range of services	Creation of the specifications of the safety-related parts of controllers (SRP/CS) taking into account the required performance level (PLr) in accordance with ISO 13849 Digitalization and update of the OEM circuit diagram in relation to the modified SRP/CS Creation of the parts list for the new SRP/CS Specifications of measures for controlling and avoiding systematic errors Calculation of the achieved performance level (PL) of the SRP/CS according to ISO 13849 Dimensioning of physical guards Calculation of required safety distances and stopping times
Documentation	Provision of the generated documentation in PDF format Coordination and presentation of the created technical documentation as well as planning of further processes
Note	The range of performance depends on the individual project coordination and the agreement in the functional specification If type C standards are relevant for the machine, these apply accordingly Reference to relevant standards for implementing the recommended risk-reducing measures
Machine life cycle	Construction Modernization

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/Solution Engineering

SICK AG
WALDKIRCH
GERMANY
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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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Sensor Intelligence