Safety Light Curtain Finger Protection

SEMG533



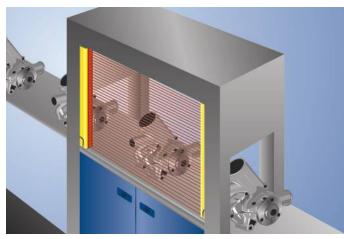
- Easy configuration via wiring
- Protection field over the entire length of the housing for an installation without protrusion
- Quick alignment through visible red light
- Slim design for easy integration

Range 0,256 m Housing Length (L) 459 mm Safety Field Height (SFH) 460 mm Resolution 14 mm Light Source Red Light Wavelength 630 nm Opening Angle ± 2,5 ° Electrical Data 5 Sensor Type Emitter Supply Voltage 19,228,8 V DC Current Consumption (Ub = 24 V) 75 mA Temperature Range -2555 °C Storage temperature -2560 °C Reverse Polarity Protection yes Protection Class III Mechanical Data Aluminum Disc Material Polycarbonate Degree of Protection IP65/IP67 Connection M12 × 1; 4/5-pin Cable Length 300 mm Safety-relevant Data ESPE Type (EN 61496) Function SIL3 Safety Integrity Level (EN 62061) SIL3 Safety Integrity Level (EN 61508) SIL3 Safety Integrity Level (EN 61508) SIL3 Safety Integri	Optical Data	
Safety Field Height (SFH)460 mmResolution14 mmLight SourceRed LightWavelength630 nmOpening Angle± 2,5 °Electrical DataSensor TypeEmitterSupply Voltage19,228,8 V DCCurrent Consumption (Ub = 24 V)75 mATemperature Range-2555 °CStorage temperature-2560 °CReverse Polarity ProtectionyesProtection ClassIIIMechanical DataAluminumDisc MaterialAluminumDisc MaterialPolycarbonateDegree of ProtectionIP65/IP67ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant Data4ESPE Type (EN 61496)4Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesFinger ProtectionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2StafeSafetySuitable Connection Equipment No.2Suitable Connection Equipment No.2Suitable Connection Equipment No.2Suitable Connection Equipment No.2Suitable Connection Equipment No.2Suit	Range	0,256 m
Resolution14 mmLight SourceRed LightWavelength630 nmOpening Angle± 2,5 °Electrical DataEmitterSupply Voltage19,228,8 V DCCurrent Consumption (Ub = 24 V)75 mATemperature Range-2555 °CStorage temperature-2560 °CReverse Polarity ProtectionyesProtection ClassIIIMechanical DataAluminumDisc MaterialAluminumDisc MaterialPolycarbonateDegree of ProtectionIP65/IP67ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant DataESPE Type (EN 61496)Performance Level (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SiL3Safety Integrity Level (EN 61508)SiL3Safety Integrity Level (EN 62061)SILCL3FunctionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2SolarSafet	Housing Length (L)	459 mm
Light SourceRed LightWavelength630 nmOpening Angle± 2,5 °Electrical DataSensor TypeEmitterSupply Voltage19,228,8 V DCCurrent Consumption (Ub = 24 V)75 mATemperature Range-2555 °CStorage temperature-2560 °CReverse Polarity ProtectionyesProtection ClassIIIMechanical DataAluminumDisc MaterialAluminumDisc MaterialPolycarbonateDegree of ProtectionIP65/IP67ConnectionM12 x 1; 4/5-pinCable Length300 mmSafety-relevant DataESPE Type (EN 61496)Performance Level (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesFinger ProtectionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2Statel Connecti	Safety Field Height (SFH)	460 mm
Wavelength630 nmOpening Angle± 2,5 °Electrical DataSensor TypeEmitterSupply Voltage19,228,8 V DCCurrent Consumption (Ub = 24 V)75 mATemperature Range-2555 °CStorage temperature-2560 °CReverse Polarity ProtectionyesProtection ClassIIIMechanical DataAluminumHousing MaterialAluminumDisc MaterialPolycarbonateDegree of ProtectionIP65/IP67ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant DataESPE Type (EN 61496)ESPE Type (EN 61496)4Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2235	Resolution	14 mm
Opening Angle $\pm 2,5 °$ Electrical DataSensor TypeEmitterSupply Voltage19,228,8 V DCCurrent Consumption (Ub = 24 V)75 mATemperature Range-2555 °CStorage temperature-2560 °CReverse Polarity ProtectionyesProtection ClassIIIMechanical DataHousing MaterialHousing MaterialAluminumDisc MaterialPolycarbonateDegree of ProtectionIP65/IP67ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant Data20 aESPE Type (EN 61496)4Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesScope of functionsgaezConnection Diagram No.362Control Panel No.2 35	Light Source	Red Light
Electrical DataSensor TypeEmitterSupply Voltage $19,228,8 \vee DC$ Current Consumption (Ub = 24 V)75 mATemperature Range $-2555 \circ C$ Storage temperature $-2560 \circ C$ Reverse Polarity ProtectionyesProtection ClassIIIMechanical DataHuminumDisc MaterialPolycarbonateDegree of ProtectionIP65/IP67ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant DataESPE Type (EN 61496)Performance Level (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionYesFinger ProtectionyesScope of functionsBasic functionConnection Diagram No. 362 Control Panel No. 2 Suitable Connection Equipment No. 2	Wavelength	630 nm
Sensor TypeEmitterSupply Voltage19,228,8 V DCCurrent Consumption (Ub = 24 V)75 mATemperature Range-2555 °CStorage temperature-2560 °CReverse Polarity ProtectionyesProtection ClassIIIMechanical DataAluminumDisc MaterialAluminumDisc MaterialPolycarbonateDegree of ProtectionIP65/IP67ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant DataESPE Type (EN 61496)Safety Integrity Level (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2Stitable Connection Equipment No.2	Opening Angle	± 2,5 °
Supply Voltage19,228,8 V DCCurrent Consumption (Ub = 24 V)75 mATemperature Range-2555 °CStorage temperature-2560 °CReverse Polarity ProtectionyesProtection ClassIIIMechanical DataAluminumHousing MaterialAluminumDisc MaterialPolycarbonateDegree of ProtectionIP65/IP67ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant DataSafety-relevant DataESPE Type (EN 61496)4Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2235	Electrical Data	
Current Consumption (Ub = 24 V)75 mATemperature Range-2555 °CStorage temperature-2560 °CReverse Polarity ProtectionyesProtection ClassIIIMechanical DataAluminumHousing MaterialAluminumDisc MaterialPolycarbonateDegree of ProtectionIP65/IP67ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant DataESPE Type (EN 61496)ESPE Type (EN 61496)4Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2235	Sensor Type	Emitter
Temperature Range-2555 °CStorage temperature-2560 °CReverse Polarity ProtectionyesProtection ClassIIIMechanical DataAluminumHousing MaterialAluminumDisc MaterialPolycarbonateDegree of ProtectionIP65/IP67ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant DataESPE Type (EN 61496)Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2235	Supply Voltage	19,228,8 V DC
Storage temperature-2560 °CReverse Polarity ProtectionyesProtection ClassIIIMechanical DataAluminumHousing MaterialAluminumDisc MaterialPolycarbonateDegree of ProtectionIP65/IP67ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant DataESPE Type (EN 61496)4Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2235	Current Consumption (Ub = 24 V)	75 mA
Reverse Polarity ProtectionyesProtection ClassIIIMechanical DataAluminumHousing MaterialAluminumDisc MaterialPolycarbonateDegree of ProtectionIP65/IP67ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant DataEESPE Type (EN 61496)4Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2235	Temperature Range	-2555 °C
Protection ClassIIIMechanical DataAluminumHousing MaterialAluminumDisc MaterialPolycarbonateDegree of ProtectionIP65/IP67ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant DataESPE Type (EN 61496)ESPE Type (EN 61496)4Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2235	Storage temperature	-2560 °C
Mechanical DataHousing MaterialAluminumDisc MaterialPolycarbonateDegree of ProtectionIP65/IP67ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant DataESPE Type (EN 61496)ESPE Type (EN 61496)4Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2235	Reverse Polarity Protection	yes
Housing MaterialAluminumDisc MaterialPolycarbonateDegree of ProtectionIP65/IP67ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant DataEESPE Type (EN 61496)4Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesScope of functionsBasic functionControl Panel No.2Suitable Connection Equipment No.2235	Protection Class	III
Disc MaterialPolycarbonateDegree of ProtectionIP65/IP67ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant DataESPE Type (EN 61496)ESPE Type (EN 61496)4Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2235	Mechanical Data	
Degree of ProtectionIP65/IP67ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant DataESPE Type (EN 61496)4Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionFinger ProtectionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2235	Housing Material	Aluminum
ConnectionM12 × 1; 4/5-pinCable Length300 mmSafety-relevant DataESPE Type (EN 61496)4Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2235	Disc Material	Polycarbonate
Cable Length300 mmSafety-relevant DataESPE Type (EN 61496)4Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2235	Degree of Protection	IP65/IP67
Safety-relevant Data ESPE Type (EN 61496) 4 Performance Level (EN ISO 13849-1) Cat. 4 PL e Mission Time TM (EN ISO 13849-1) 20 a Safety Integrity Level (EN 61508) SIL3 Safety Integrity Level (EN 62061) SILCL3 Function yes Scope of functions Basic function Control Diagram No. 362 Control Panel No. 2 Suitable Connection Equipment No. 2	Connection	M12 × 1; 4/5-pin
ESPE Type (EN 61496)4Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionFinger ProtectionyesScope of functionsBasic functionControl Panel No.362Suitable Connection Equipment No.2235	Cable Length	300 mm
Performance Level (EN ISO 13849-1)Cat. 4 PL eMission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionFinger ProtectionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.2Suitable Connection Equipment No.2235	Safety-relevant Data	
Mission Time TM (EN ISO 13849-1)20 aSafety Integrity Level (EN 61508)SIL3Safety Integrity Level (EN 62061)SILCL3FunctionyesScope of functionsBasic functionConnection Diagram No.362Control Panel No.SR4Suitable Connection Equipment No.2235	ESPE Type (EN 61496)	4
Safety Integrity Level (EN 61508) SIL3 Safety Integrity Level (EN 62061) SILCL3 Function yes Scope of functions Basic function Connection Diagram No. 362 Control Panel No. SR4 Suitable Connection Equipment No. 2	Performance Level (EN ISO 13849-1)	Cat. 4 PL e
Safety Integrity Level (EN 62061) SILCL3 Function yes Finger Protection yes Scope of functions Basic function Connection Diagram No. 362 Control Panel No. SR4 Suitable Connection Equipment No. 2	Mission Time TM (EN ISO 13849-1)	20 a
Function Finger Protection yes Scope of functions Basic function Connection Diagram No. 362 Control Panel No. SR4 Suitable Connection Equipment No. 2 35	Safety Integrity Level (EN 61508)	SIL3
Finger Protection yes Scope of functions Basic function Connection Diagram No. 362 Control Panel No. SR4 Suitable Connection Equipment No. 2	Safety Integrity Level (EN 62061)	SILCL3
Scope of functionsBasic functionConnection Diagram No.362Control Panel No.SR4Suitable Connection Equipment No.2	Function	
Connection Diagram No. 362 Control Panel No. SR4 Suitable Connection Equipment No. 2	Finger Protection	yes
Control Panel No. SR4 Suitable Connection Equipment No. 2	Scope of functions	Basic function
Suitable Connection Equipment No. 2 35	Connection Diagram No.	362
	Control Panel No.	SR4
Suitable Mounting Technology No. 701 790 810 820	Suitable Connection Equipment No.	2 35
	Suitable Mounting Technology No.	701 790 810 820

Suitable Receiver

SEMG633

These safety light curtains complete all basic tasks with ease. The basic functions of safety operating mode, restart inhibit and contactor monitoring are integrated as standard and can be easily configured. Without protrusion, the safety field always extends to the end of the housing. This makes it easy to secure even in confined installation conditions.



Complementary Products

 Path-Folding Mirror Z2UG002

 Protection Column with Path-Folding Mirror SZ000EU125NN01

 Protection Column with Protective Screen SZ000EG125NN01

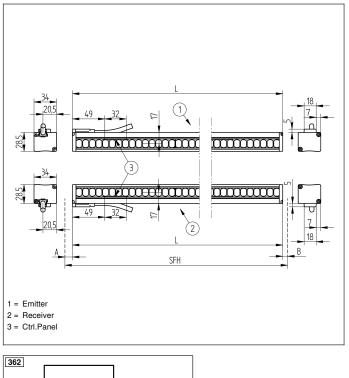
 Protection column with protective screen Z2SS001

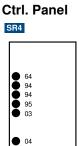
 Protection column with Z2SU001 deflection mirror

 Software

Safety Technology







03 = Error Indicator 04 = Function Indicator

64 = Diagnosis/Test

94 = Diagnosis

95 = Diagnosis/Large Detection Range

