



SSP

Safety System Products

SAFIX W3-A-P4

RFID Safety Sensor, high coded, 4-pin, Pigtail

Your advantages

- PLe according to EN ISO 13849-1
- IP 67 and ECOLAB
- LED diagnosis
- Single information signal for diagnosis
- Highly coded according to EN ISO 14119 (version I3 and W3)
- Fastest sensor available (risk time)



To the downloads ►

we simplify safety

SAFIX W3-A-P4

The new SAFIX 3 RFID safety sensor impresses due to its compact design and a hole distance of 22 mm. It can be actuated from the front and both sides and is available in 3 different versions with a choice of low level or high level coding according to EN ISO 14119. The sensor has protection class IP69K, holds an ECOLAB approval and can either be purchased with an M12, 4-pin pigtail cable or a fixed cable length of 5 or 10 metres.

Thanks to its OSSD output signals, the sensor can be connected to all standard control and safety relays. A total of up to 30 sensors can be switched in series. An information signal and a three colour LED display on the sensor are provided for diagnosis purposes.

General data

Type designation	SAFIX W3-A-P4
Functional type	RFID safety sensor
Item number	SP-E-76-000-62
Service life TM (EN ISO 13849-1)	20 Years
Coding levels	Individually coded, learnable

Safety data

Performance Level (EN ISO 13849)	PL _e
Category (EN ISO 13849-1:2015)	cat. 4
SIL (acc. IEC 62061)	SIL3, SILCL3
PFHd (EN ISO 13849)	2,24 x 10 ⁻⁹
Approvals	TÜV_SÜD, CE

Environmental conditions

Max. storage temperature	-25 ... +70 °C
Max. operating temperature	-25 ... +70 °C
Contamination level	2

Electrical data

Overvoltage category	II
Rated impulse withstand voltage U _{imp}	1 kV

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Electrical service life (nominal load)	20 Years
Design / Connections	Pigtail cable, M12 4-pin male connector
Contact type	OSSD
Supply voltage	DC +/- 10% 24 V
Rated insulation voltage Ui	50 V
Power consumption in ambient conditions	23,75 W
No-load current I0	(not activated) 10 mA / (activated) 30 mA
Max. voltage (VDC)	1 A
Switching frequency	3
LED lighting	3 colors
Utilisation category	D-12/DC-13
Risk time	75 ms

Pin assignment according DIN 47100

BN	UB
WH	safety output 2
BU	GND
BK	safety output 2
GY	diagnostic output
PK	safety input 2
VT	safety output 2
OG	EDM/ Start- Input

Mechanical data

Dimensions

Width	36 mm
Length	13 mm
Height	26 mm
Torque (mounting nut)	0,7 Nm
Mounting	Screw connection with M4 screws (sunk)
Housing material	PBT
Shock resistance	30 g/11 ms
Vibration resistance	Amplitude 1 mm, 10 ... 55 Hz
Switching distance Sn	12 mm

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Assured switching distance ON S(ao)	8 mm
Assured switching distance OFF S(ar)	18 mm
Hysteresis	2 mm
Repeat accuracy R	< 0,5 mm

LED diagnostics

Advanced LED diagnosis

Extended LED-Diagnosis

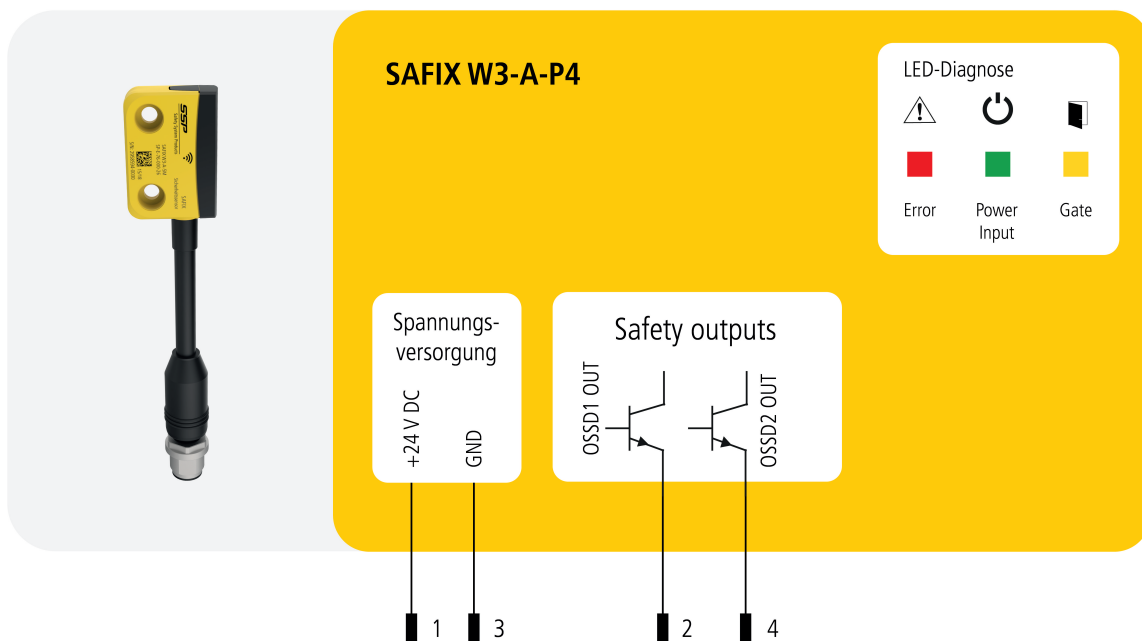
Green	Red	Yellow	Remark
off 	off 	on 	Sensor not actuated, voltage applied
on 	off 	off 	Sensor actuated, all inputs set correctly
flashes 	off 	off 	Sensor actuated, safety inputs not set (low level)
flashes 	off 	off 	Safety inputs set (high level), waiting for start pulse
off 	off 	flashes 	Actuator at the reception limit
off 	off 	flashes 	Teach in process

Green	Red	Yellow	Remark
off 	flashes 	off 	Error safety outputs
off 	flashes 	off 	Error safety inputs
off 	flashes 	off 	Error safety inputs. EDM automatic: Safety relay fault. EDM manual: Faulty start impulse
off 	flashes 	off 	Overvoltage and undervoltage fault
off 	flashes 	off 	Temperature outside the permitted range
off 	flashes 	off 	Wrong actuator
off 	on 	off 	Permanent light Internal device error

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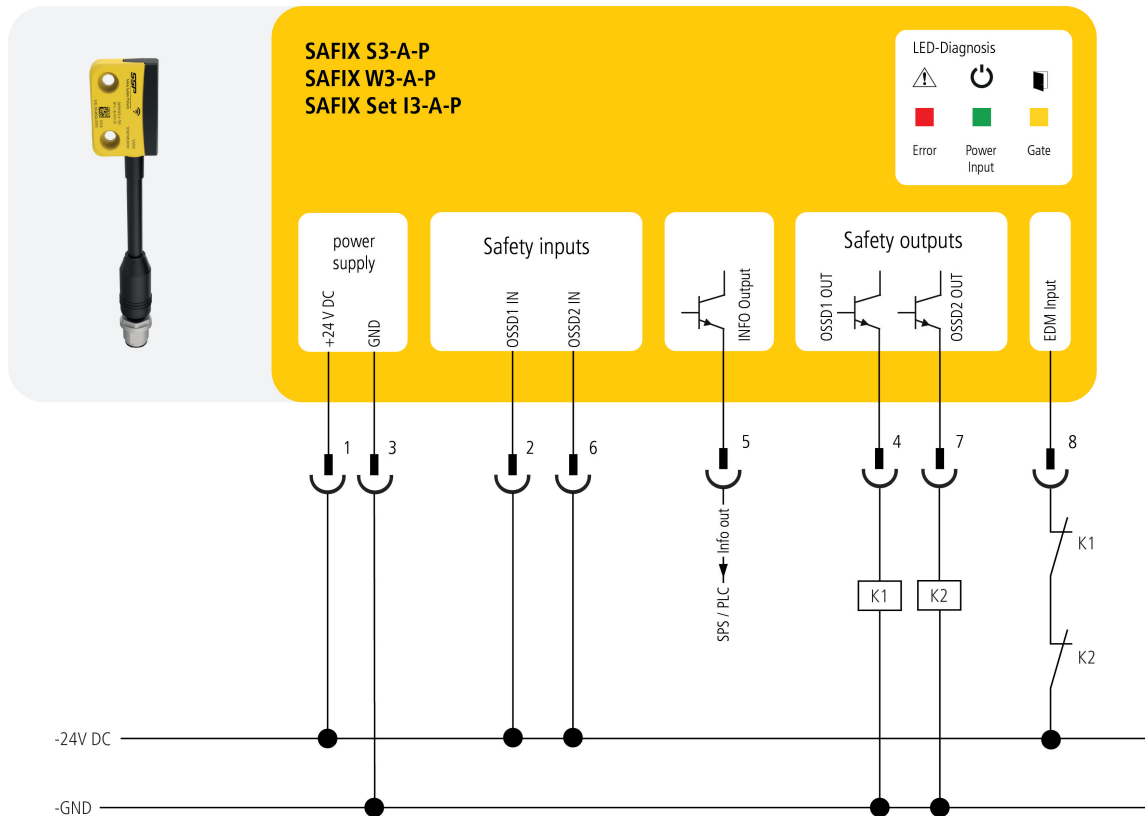
Electrical drawings

Connection drawing



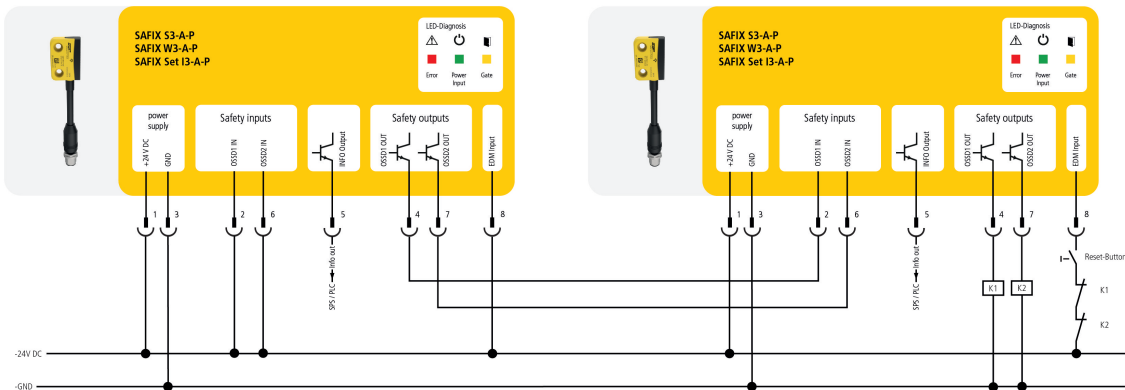
SAFIX W3-A-P4

Connection example 1



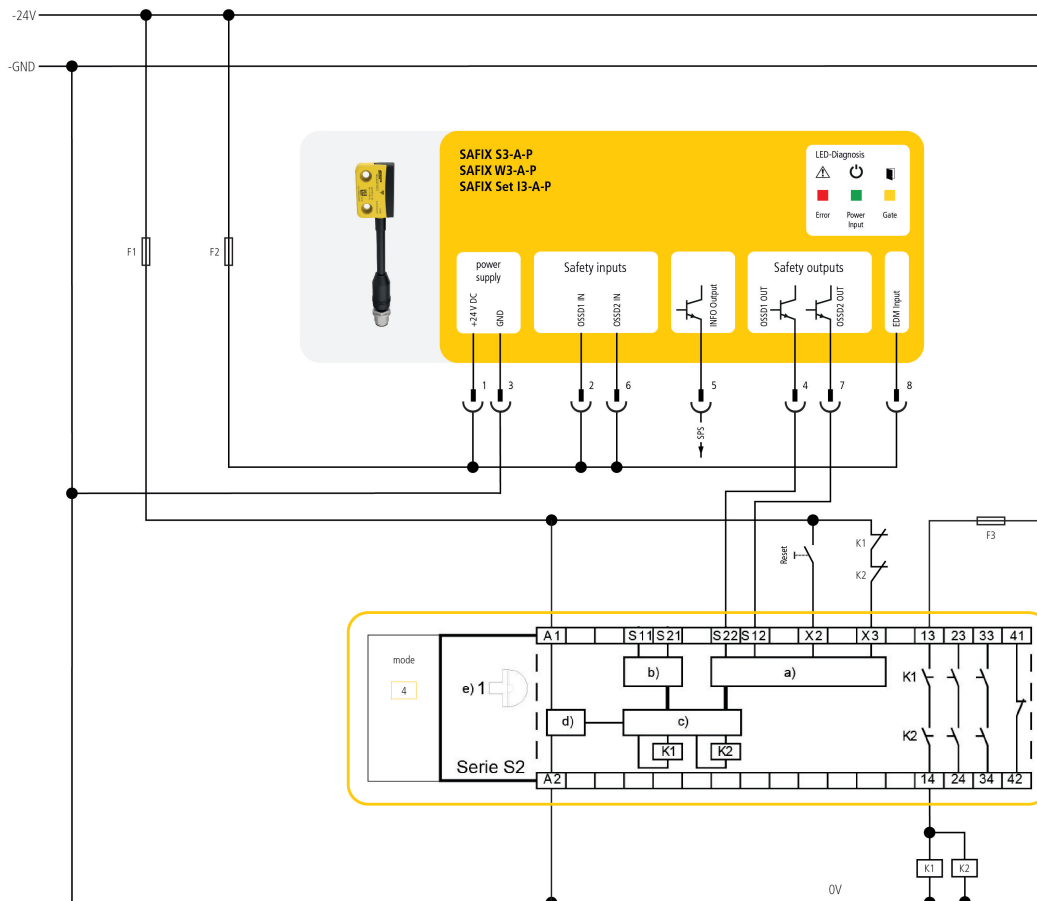
SAFIX W3-A-P4

Connection example 2



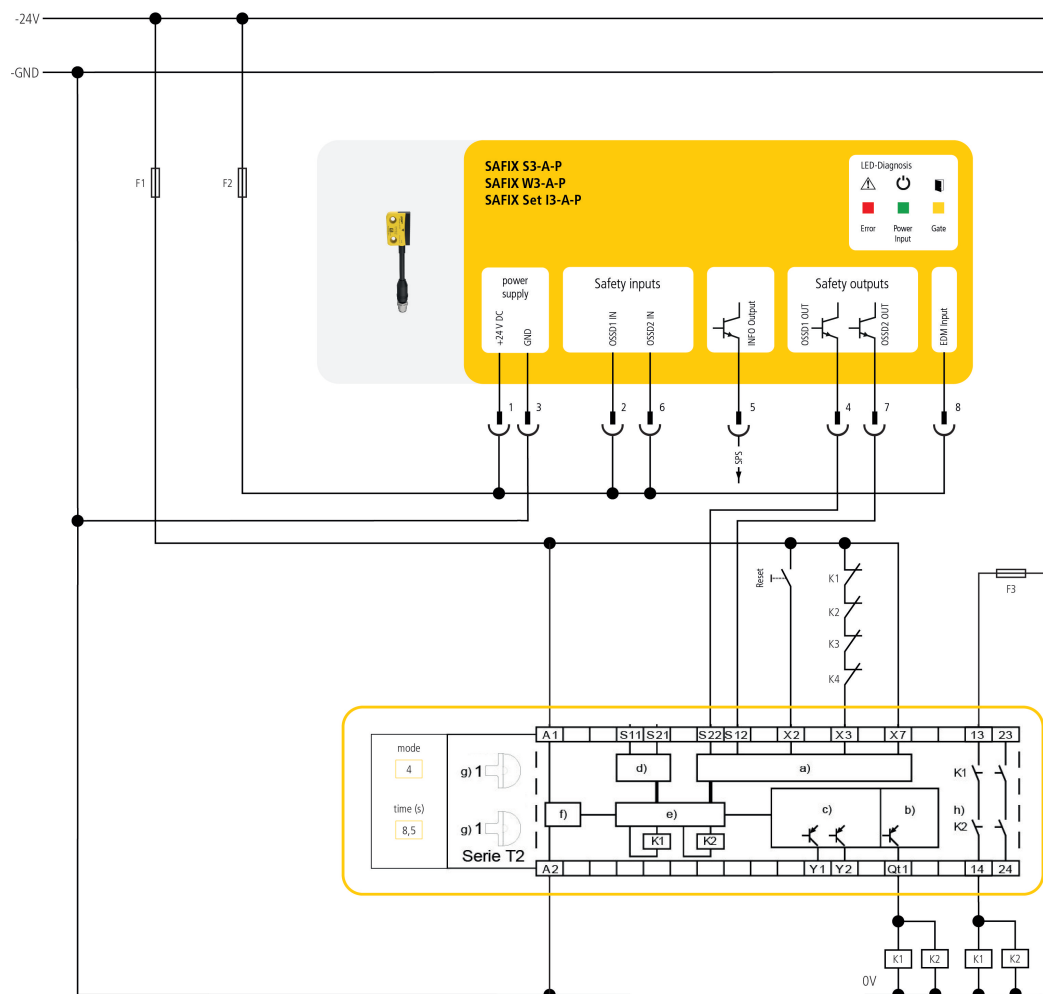
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Connection example 3



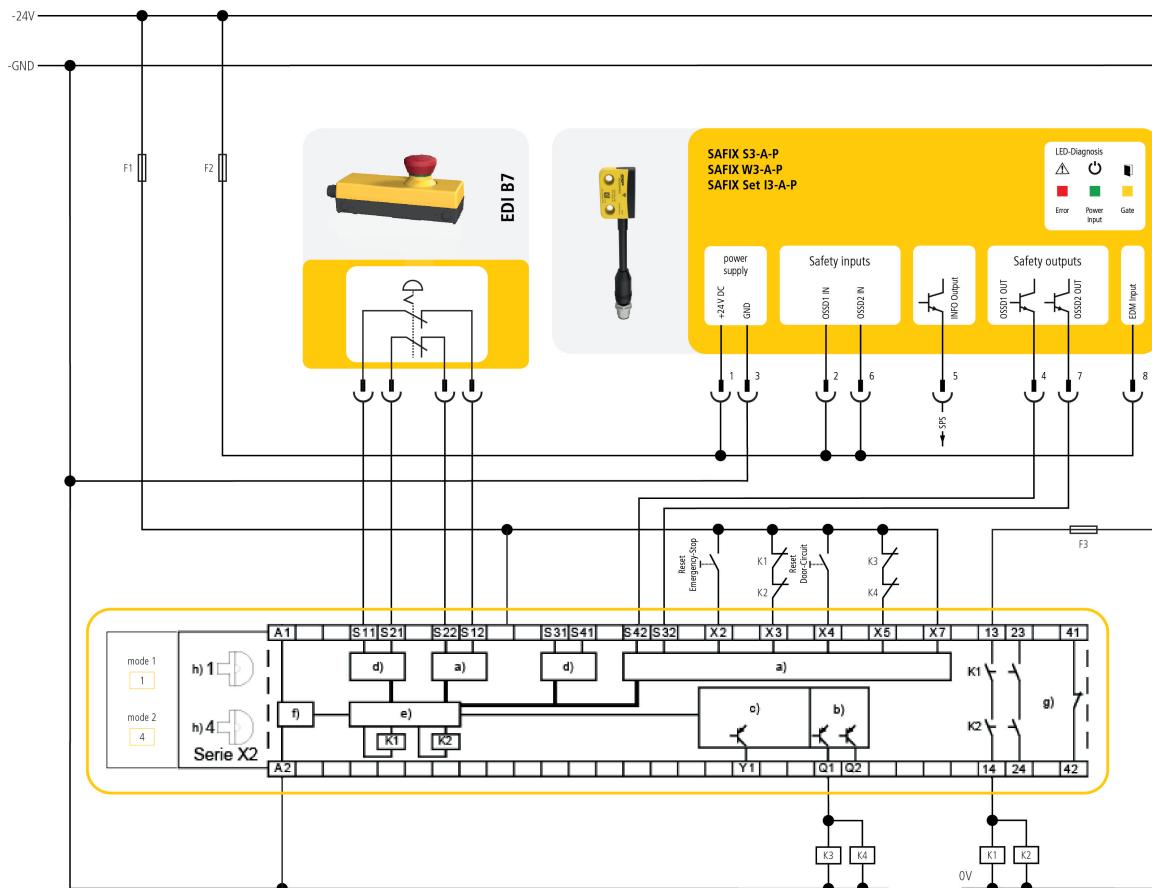
SAFIX W3-A-P4

Connection example 4



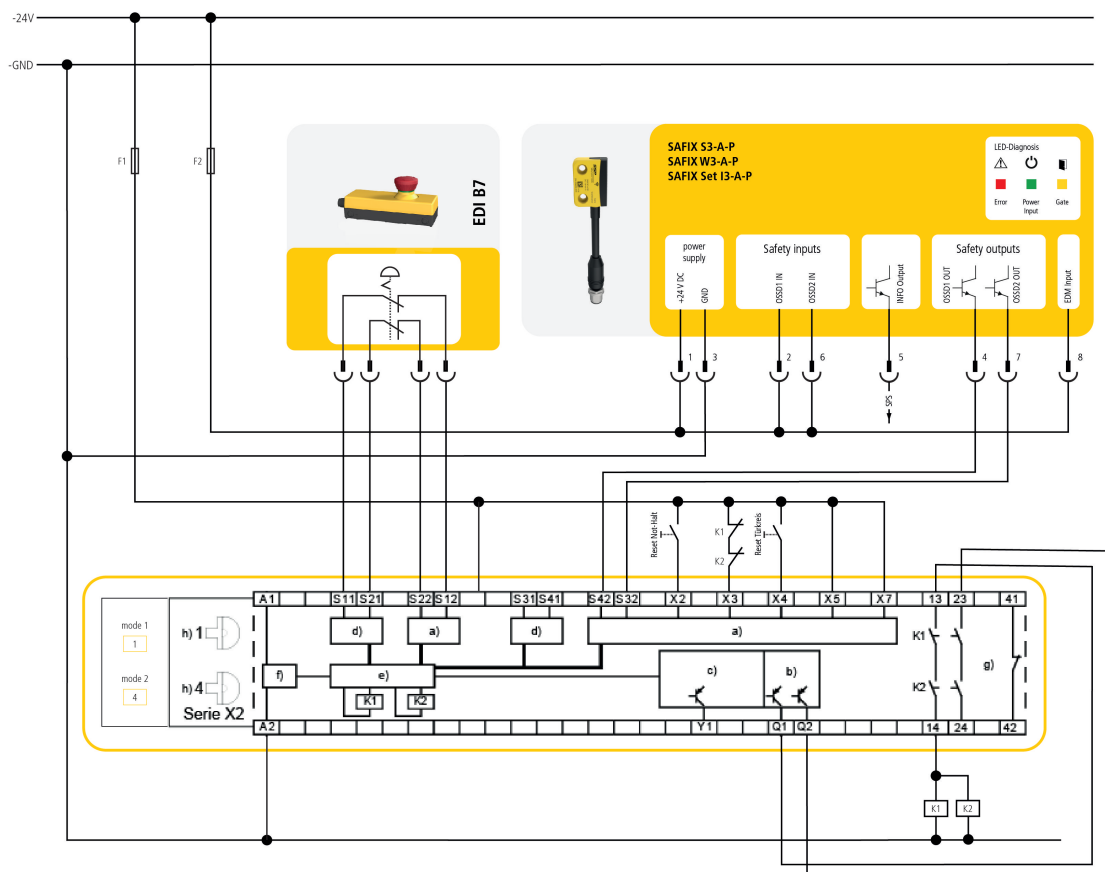
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Connection example 5



SAFIX W3-A-P4

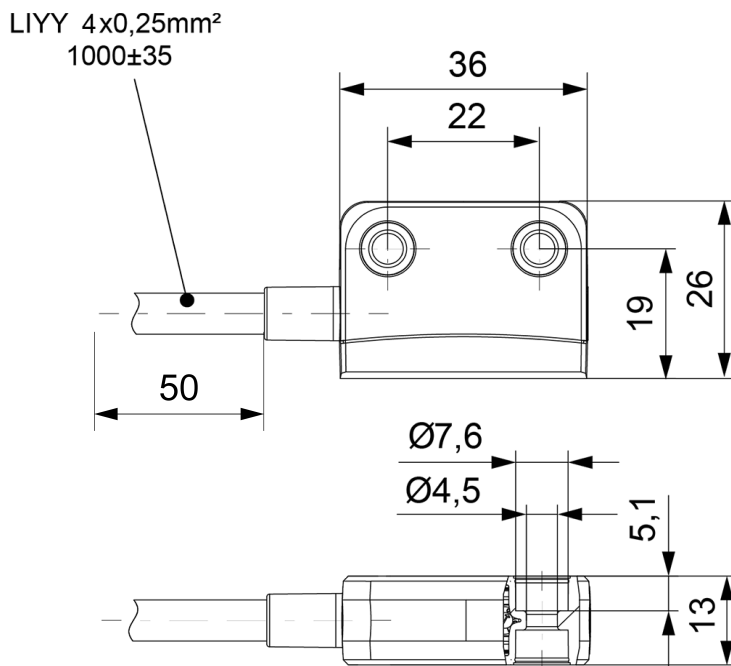
Connection example 6



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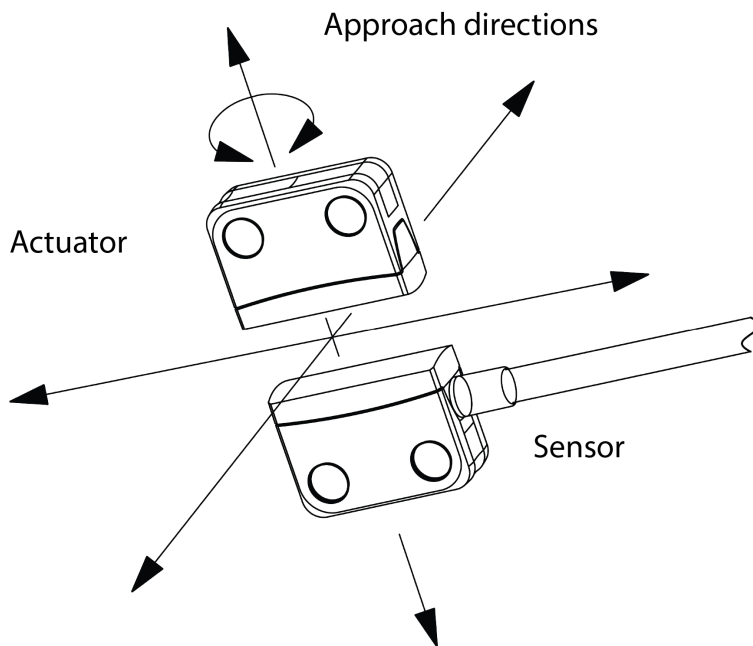
Drawings

Dimensions



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Assembly



Equipment

Safety switches

SP-X-45-075-42



SP-X-45-075-44



SP-X-45-075-42



SAFIX W3-A-P4

Standard-Actuator for SAFIX 3	SAFIX T5	SP-E-76-000-00	
Flat actuator for SAFIX 3	SAFIX T6	SP-E-76-000-61	
Distance plate 10 mm	SAFIX Z A10	SP-E-76-100-01	
Distance plate 8 mm	SAFIX Z A8	SP-E-76-100-00	
Mounting	SAFIX Z B5	SP-K-71-000-08	
	SAFIX Z B6	SP-K-71-000-09	
Gasket set, transparent	SAFIX Z D	SP-K-71-000-02	
mounting kit	SAFIX Z M	SP-K-71-000-03	

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Passive distributor

XCONN P6-M12-10m

SP-X-71-000-04



Passive distributor

XCONN P6-M12-M23

SP-X-71-000-01



Y distributor

XCONN Y2-M12

SP-X-33-000-71



Accessories

M12-female connector, 5 pin, 10 m

CD10

SP-R-13-309-56



M12-female connector, 5 pin, 25 m

CD25

SP-R-13-309-49



M12-female connector, 5 pin, 5 m

CD5

SP-R-13-309-50



M12-female connector, 5-pin

M12-C51-G

SP-X-33-001-00



Contact expansion

E series

SP-S-00-003-01



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Passive distributor

XCONN P6-M12-5m

SP-X-71-000-00



Safe control technology

MOSAIC M1

SP-R-11-000-00



Standard safety relay 1 safety function

S2 series

SP-K-70-001-00



Time delay safety relay 1 safety function

T2 series

SP-K-70-001-02



Multi-function safety relay 2 safety functions

X2 series

SP-K-70-001-03



Wireless Safety

Safety Simplifier | for SAFIX

S14LDRB-H08-E2-I1-Q1A0-Q

SP-X-89-100-07

2A0-Q3C0-Q4I0-W38



Safety Simplifier | for SAFIX

S14LDRB-H09-E2-I1-I1-Q1A0-

SP-X-89-100-08

Q2A0-Q3C0-Q4I0-W39



SAFIX W3-A-P4

Safety Simplifier | for SAFIX

S14LDRB-H0A-E2-I1-I1-I1-Q1

SP-X-89-100-09

A0-Q2A0-Q3C0-Q4I0-W40



Safety Simplifier | for SAFIX

S14LDRB-H0A-E2-I1-I1-K4-Q1

SP-X-89-100-10

A0-Q2A0-Q3C0-Q4I0-W41



Downloads

- Operating manual
- CAD Data
- SISTEMA - Data V 4.1
- Certificate
- Product line
- Catalog
- Catalog packaging systems
- EPLAN-Data
- Certificate