Industrial Safety Systems

UE410 Flexi
Modular Safety Controller

SICK
Sensor Intelligence.
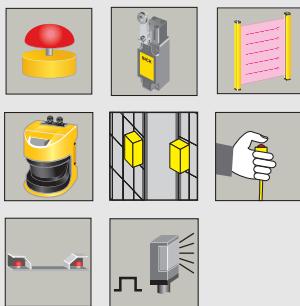
- Optimal integration of SICK safety devices
- Significant reduction in the control cabinet width
- Easy program selection using rotary switches (no software required)
- Significant reduction in the wiring effort
- Relay module
- PROFIBUS and DeviceNet integration

$C \in$ $\overset{UL}{\underset{US}{c}}$ TÜV

Overview of technical specifications

Number of inputs	4 … 100 depending on module combination
Number of safety capable outputs	4 … 52 depending on module combination
Field bus (depending on type)	DeviceNet/PROFIBUS-DP
Program selection	Adjustable by means of rotary switch
Logical functions	OR, AND, BYPASS, Muting
Muting	✔

Product description

Behind the UE410 Flexi series is a safety control concept that enables different units and modules to be connected together as required in the specific case.

The units are of plug-in style with communication between the individual units over an internal bus.

The sensors that can be connected and the function are defined using rotary switches on the related units; except for the relay modules and the fieldbus modules that are used for integration in a higher level controller without a safety function. These modules are output units and have no effect on the logic set or the function of the upstream units.

The UE410 series comprises the units:
- UE410-MU (main unit)
- UE410-XU (extension unit)
- UE410-8DI (input expansion unit)
- UE410-2RO/-4RO (relay module)
- UE410-PRO/UE410-DEV (diagnosis module PROFIBUS-DP/DeviceNet. CANopen in preparation)

In-system added value

A UE410 system always comprises a main unit (UE410-MU) and, as required, additional extension units and an appropriate diagnosis module.

	Module	Number of inputs	Number of outputs	Delay time (adjustable)[3]	Connection type	Field bus	Number of application diagnostic outputs
UE410-MU	Main unit	4	4	0 … 5 s 0 … 50 s 0 … 300 s	Plug-in terminals/ dual level spring clamp	–	–
UE410-XU	Extension unit	4	4	0 … 5 s 0 … 50 s 0 … 300 s		–	–
UE410-8DI	Input expansion unit	4[1]	–	–		–	–
UE410-2RO/ UE410-4RO	Relay module	–	2/4[2]	–		–	1/2
UE410-PRO/ UE410-DEV	Diagnosis module	–	-	–		PROFIBUS-DP/ DeviceNet	–

[1] Dual-channel
[2] Relay outputs
[3] Only outputs Q3/Q4

➜ Configuring UE410 Flexi modules: www.ue410flexi.com

Ordering information

Main unit

Number of inputs	Number of safety capable outputs	Connection type	Delay time (adjustable)	Type	Part number
2 dual-channel resp. 4 single-channel	2 dual-channel resp. 4 single-channel	Plug-in terminals	0 s ... 5 s	UE410-MU3T5	6026136
			0 s ... 50 s	UE410-MU3T50	6026137
			0 s ... 300 s	UE410-MU3T300	6026138
		Dual level spring clamp terminals	0 s ... 5 s	UE410-MU4T5	6032669
			0 s ... 50 s	UE410-MU4T50	6032670
			0 s ... 300 s	UE410-MU4T300	6032671

Extension unit

Number of inputs	Number of safety capable outputs	Connection type	Delay time (adjustable)	Type	Part number
2 dual-channel resp. 4 single-channel	2 dual-channel resp. 4 single-channel	Plug-in terminals	0 s ... 5 s	UE410-XU3T5	6032470
			0 s ... 50 s	UE410-XU3T50	6032471
			0 s ... 300 s	UE410-XU3T300	6032472
		Dual level spring clamp terminals	0 s ... 5 s	UE410-XU4T5	6032672
			0 s ... 50 s	UE410-XU4T50	6032673
			0 s ... 300 s	UE410-XU4T300	6032674

Input expansion unit

Number of inputs	Connection type	Type	Part number
4 dual-channel resp. 8 single-channel	Plug-in terminals	UE410-8DI3	6026139
	Dual level spring clamp terminals	UE410-8DI4	6032675

Relay module

Number of normally open contacts	Number of application diagnostic outputs	Connection type	Type	Part number
2	1	Plug-in terminals	UE410-2RO3	6026144
		Dual level spring clamp terminals	UE410-2RO4	6032677
4	2	Plug-in terminals	UE410-4RO3	6026143
		Dual level spring clamp terminals	UE410-4RO4	6032676

Diagnosis module

Field bus	Connection type	Type	Part number
PROFIBUS-DP	Plug-in terminals	UE410-PRO3	6028407
	Dual level spring clamp terminals	UE410-PRO4	6032678
DeviceNet	Plug-in terminals	UE410-DEV3	6032469
	Dual level spring clamp terminals	UE410-DEV4	6032679

Detailed technical specifications

Main unit

General data

	UE410-MU3T5	UE410-MU3T50	UE410-MU3T300	UE410-MU4T5	UE410-MU4T50	UE410-MU4T300
Category	4 (EN 954-1)					
Safety integrity level	SIL3 (IEC 61508)					
PFD	1.7×10^{-5}					
PFH	7.9×10^{-9}/h					
SFF	96 %					
DC	93 %					
Ambient operating temperature	–25 °C ... +55 °C					
Storage temperature	–25 °C ... +70 °C					
Air humidity from ... to	15 % ... 95 %, non-dewing					
Climate conditions according to	EN 61131-2					
Vibration resistance	5 Hz ... 500 Hz					
Vibration resistance (checked to)	EN 60068-2-64, EN 61131-2					
Enclosure rating	EN/IEC 60529					
Clamps	IP 40					
Housing	IP 20					
Electromagnetic compatibility (EMC)	Class A (EN 61131-2, EN 61000-6-2, EN 55011)					
Protection class	III					
Connection conductor cross-section	Single-wire or fine-wire conductor: 1 x 0.14 mm² ... 2.5 mm² or 2 x 0.14 mm² ... 0.75 mm² / fine-wire with terminal crimp according to EN 46288: 1 x 0.25 mm² ... 2.5 mm² or 2 x 0.25 mm² ... 0.5 mm²					
Connection type	Plug-in terminals			Dual level spring clamp terminals		
Dimensions (W x H x D)	29 mm x 96.5 mm x 120.8 mm					
Weight	180 g					

Electrical data

	UE410-MU3T5	UE410-MU3T50	UE410-MU3T300	UE410-MU4T5	UE410-MU4T50	UE410-MU4T300
Supply voltage	24 V DC (19.2 V DC … 30 V DC)					
Type of supply voltage	PELV (electrical output circuit on UE410-4RO/UE410-2RO > 25 V AC/60 V DC), PELV or SELV (electrical output circuit on UE410-4RO/UE410-2RO < 25 V AC/60 V DC)					
Power consumption	3 W					
Switch-on time	10 s					
Short-circuit protection	4A, fuse characteristic gG					
Input circuit (I1 - I4, EN, S1 - S3) Input voltage HIGH Input voltage LOW Input current HIGH Input current LOW Switch-on time Synchronous time monitoring Muting time to operate Tolerated muting sensor signal interrupt Switch-on time ENTER button	15 V … 30 V –5 V DC … 5 V DC 3 mA (2.3 mA … 3.6 mA) –2.5 mA … 0.15 mA Min. 70 ms 800 ms (at program 2) 500 ms (at program 4 and 5) 61 ms, at program 3 [1] 100 ms, at program 3 [2] 3 s [3]					
Number of inputs	2 dual-channel resp. 4 single-channel					
Control outputs (X1, X2) Number of outputs Type of output Output voltage Output current Test pulse width Test pulse rate Load capacity	2 PNP semiconductors, short-circuit protected, cross-circuit monitored 18 V DC … 30 V DC Max. 150 mA 12 ms (at program 1, 2, 4, 5, 6 on X1 and X2, at program 3.2 on X1) 52 ms (at program 3.2 on X2) 5 Hz Max. 1000 nF					
Safety outputs (Q1, Q2, Q3, Q4) Number of safety capable outputs Type of output Output voltage Output current Response time Test pulse width Test pulse rate Load capacity Cable length Response time	4 PNP semiconductors, short-circuit protected, cross-circuit monitored 30 V DC 2 A 13 ms 300 µS 5 Hz 500 nF 100 m, 1.5 mm² 13 ms (I1/I2) program 3.1, 7, 8 29 ms (I1/I2) program 1, 2, 4, 5, 6 130 ms (I1/I2) program 1 safety mat 79 ms (I1/X1) program 3.2 29 ms (I2/X2) program 3.2 13 ms (I3/I4) program 1, 2, 7, 8 29 ms (I3/I4) program 4 and 5 13 ms (EN) at cascading					
Delay time [4]	Adjustable 0 s … 5 s	Adjustable 0 s … 50 s	Adjustable 0 s … 300 s	Adjustable 0 s … 5 s	Adjustable 0 s … 50 s	Adjustable 0 s … 300 s
Data interface	Via field bus					

[1] Time between muting condition valid (I3/I4 HIGH) and muting active

[2] One muting input (I3 or I4) may be LOW for this time

[3] Upon applying the supply voltage

[4] Only outputs Q3/Q4

Extension unit

General data

	UE410-XU3T5	UE410-XU3T50	UE410-XU3T300	UE410-XU4T5	UE410-XU4T50	UE410-XU4T300
Category	4 (EN 954-1)					
Safety integrity level	SIL3 (IEC 61508)					
PFD	1.7×10^{-5}					
PFH	7.9×10^{-9}/h					
SFF	96 %					
DC	93 %					
Ambient operating temperature	–25 °C … +55 °C					
Storage temperature	–25 °C … +70 °C					
Air humidity from … to	15 % … 95 %, non-dewing					
Climate conditions according to	EN 61131-2					
Vibration resistance	5 Hz … 500 Hz					
Vibration resistance (checked to)	EN 60068-2-64, EN 61131-2					
Enclosure rating	EN/IEC 60529					
Clamps	IP 40					
Housing	IP 20					
Electromagnetic compatibility (EMC)	Class A (EN 61131-2, EN 61000-6-2, EN 55011)					
Protection class	III					
Connection conductor cross-section	Single-wire or fine-wire conductor: 1 x 0.14 mm² … 2.5 mm² or 2 x 0.14 mm² … 0.75 mm² / fine-wire with terminal crimp according to EN 46288: 1 x 0.25 mm² … 2.5 mm² or 2 x 0.25 mm² … 0.5 mm²					
Connection type	Plug-in terminals			Dual level spring clamp terminals		
Dimensions (W x H x D)	22.5 mm x 96.5 mm x 120.8 mm					
Weight	180 g					

Electrical data

	UE410-XU3T5	UE410-XU3T50	UE410-XU3T300	UE410-XU4T5	UE410-XU4T50	UE410-XU4T300
Supply voltage	24 V DC (19.2 V DC … 30 V DC)					
Type of supply voltage	PELV (electrical output circuit on UE410-4RO/UE410-2RO > 25 V AC/60 V DC), PELV or SELV (electrical output circuit on UE410-4RO/UE410-2RO < 25 V AC/60 V DC)					
Power consumption	3 W					
Switch-on time	10 s					
Short-circuit protection	4A fuse characteristic gG					
Input circuit (I1 - I4, EN, S1 - S3)						
Input voltage HIGH	15 V … 30 V					
Input voltage LOW	–5 V DC … 5 V DC					
Input current HIGH	3 mA (2.3 mA … 3.6 mA)					
Input current LOW	–2.5 mA … 0.15 mA					
Switch-on time	Min. 70 ms					
Synchronous time monitoring	800 ms (at program 2) 500 ms (at program 4 and 5)					
Muting time to operate	61 ms, at program 3 [1]					
Tolerated muting sensor signal interrupt	100 ms, at program 3 [2]					
Number of inputs	2 dual-channel resp. 4 single-channel					
Control outputs (X1, X2)						
Number of outputs	2					
Type of output	PNP semiconductors, short-circuit protected, cross-circuit monitored					
Output voltage	18 V DC … 30 V DC					
Output current	Max. 150 mA					
Test pulse width	12 ms (at program 1, 2, 4, 5, 6 on X1 and X2, at program 3.2 on X1) 52 ms (at program 3.2 on X2)					
Test pulse rate	5 Hz					
Load capacity	Max. 1000 nF					

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	UE410-XU3T5	UE410-XU3T50	UE410-XU3T300	UE410-XU4T5	UE410-XU4T50	UE410-XU4T300
Safety outputs (Q1, Q2, Q3, Q4)						
Number of safety capable outputs	4					
Type of output	PNP semiconductors, short-circuit protected, cross-circuit monitored					
Output voltage	30 V DC					
Output current	2 A					
Response time	13 ms					
Test pulse width	300 µS					
Test pulse rate	5 Hz					
Load capacity	500 nF					
Cable length	100 m, 1.5 mm²					
Response time	13 ms (I1/I2) program 3.1, 7, 8 29 ms (I1/I2) program 1, 2, 4, 5, 6 130 ms (I1/I2) program 1 safety mat 79 ms (I1/X1) program 3.2 29 ms (I2/X2) program 3.2 13 ms (I3/I4) program 1, 2, 7, 8 29 ms (I3/I4) program 4 and 5 13 ms (EN) at cascading					
Delay time [3]	Adjustable 0 s ... 5 s	Adjustable 0 s ... 50 s	Adjustable 0 s ... 300 s	Adjustable 0 s ... 5 s	Adjustable 0 s ... 50 s	Adjustable 0 s ... 300 s
Data interface	Via field bus					

[1] Time between muting condition valid (I3/I4 HIGH) and muting active

[2] One muting input (I3 or I4) may be LOW for this time

[3] Only outputs Q3/Q4

Input expansion unit

General data

	UE410-8DI3	UE410-8DI4
Category	4 (EN 954-1)	
Safety integrity level	SIL3 (IEC 61508)	
PFD	9.2×10^{-6}	
PFH	$6.1 \times 10^{-9}/h$	
SFF	96 %	
DC	93 %	
Ambient operating temperature	–25 °C ... +55 °C	
Storage temperature	–25 °C ... +70 °C	
Air humidity from ... to	15 % ... 95 %, non-dewing	
Climate conditions according to	EN 61131-2	
Vibration resistance	5 Hz ... 500 Hz	
Vibration resistance (checked to)	EN 60068-2-64, EN 61131-2	
Enclosure rating	EN/IEC 60529	
Clamps	IP 40	
Housing	IP 20	
Electromagnetic compatibility (EMC)	Class A (EN 61131-2, EN 61000-6-2, EN 55011)	
Protection class	III	
Connection conductor cross-section	Single-wire or fine-wire conductor: 1 x 0.14 mm² ... 2.5 mm² or 2 x 0.14 mm² ... 0.75 mm² / fine-wire with terminal crimp according to EN 46288: 1 x 0.25 mm² ... 2.5 mm² or 2 x 0.25 mm² ... 0.5 mm²	
Connection type	Plug-in terminals	Dual level spring clamp terminals
Dimensions (W x H x D)	22.5 mm x 96.5 mm x 120.8 mm	
Weight	150 g	

Electrical data

	UE410-8DI3	UE410-8DI4
Power consumption	2 W	
Input circuit (I1 - I4, EN, S1 - S3)		
Input voltage HIGH	15 V … 30 V	
Input voltage LOW	–5 V … 5 V DC	
Input current HIGH	3 mA (2.3 mA … 3.6 mA)	
Input current LOW	–2.5 mA … 0.15 mA	
Switch-on time	Min. 70 ms	
Synchronous time monitoring	800 ms (at program 3 and 5)	
Number of inputs	4 dual-channel resp. 8 single-channel	
Control outputs (X1, X2)		
Number of outputs	8	
Type of output	PNP semiconductors, short-circuit protected, conditionally cross-circuit monitored	
Output voltage	18 V DC … 30 V DC	
Output current	Max. 150 mA	
Test pulse width	12 ms (at program 1, 2, 4, 5 on X1 and X2)	
Test pulse rate	5 Hz	
Load capacity	Max. 1000 nF	
Safety outputs (Q1, Q2, Q3, Q4)		
Response time	17 ms (for main unit and input expansion unit) mode switch selection 6, 7 on UE410-8DI	
	34 ms (for main unit and input expansion unit) mode switch selection 1, 2, 3, 4, 5 on UE410-8DI	
	134 ms (for main unit and input expansion unit) mode switch selection 2 safety mat on UE410-8DI	
Data interface	Via field bus	

Relay module

General data

	UE410-2RO3	UE410-2RO4	UE410-4RO3	UE410-4RO4
Galvanised decoupling				
yes	Supply circuit - output circuit and input circuit - output circuit			
no	Supply circuit - input circuit			
Ambient operating temperature	–25 °C … +55 °C			
Storage temperature	–25 °C … +70 °C			
Air humidity from … to	15 % … 95 %, non-dewing			
Climate conditions according to	EN 61131-2			
Vibration resistance	5 Hz … 500 Hz			
Vibration resistance (checked to)	EN 60068-2-64, EN 61131-2			
Enclosure rating	EN/IEC 60529			
Clamps	IP 40			
Housing	IP 20			
Electromagnetic compatibility (EMC)	Class A (EN 61131-2, EN 61000-6-2, EN 55011)			
Protection class	III			
Connection conductor cross-section	Single-wire or fine-wire conductor: 1 x 0.14 mm² … 2.5 mm² or 2 x 0.14 mm² … 0.75 mm² / fine-wire with terminal crimp according to EN 46288: 1 x 0.25 mm² … 2.5 mm² or 2 x 0.25 mm² … 0.5 mm²			
Connection type	Plug-in terminals	Dual level spring clamp terminals	Plug-in terminals	Dual level spring clamp terminals
Dimensions (W x H x D)	22 mm x 96.5 mm x 120.8 mm			
Weight	160 g		190 g	

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Electrical data

	UE410-2RO3	UE410-2RO4	UE410-4RO3	UE410-4RO4
Supply voltage	24 V DC (19.2 V DC … 30 V DC)			
Type of supply voltage	PELV (electrical output circuit on UE410-4RO/UE410-2RO > 25 V AC/60 V DC), PELV or SELV (electrical output circuit on UE410-4RO/UE410-2RO < 25 V AC/60 V DC)			
Power consumption	1 W		2 W	
Short-circuit protection	6A, fuse characteristic gG (per circuit)			
Safety outputs (Q1, Q2, Q3, Q4)				
Number of normally open contacts	2		4	
Number of application diagnostic outputs	1		2	
Type of output	Potential free, positively-driven			
Switching voltage	230 V DC (5 V DC … 275 V DC)			
	250 V AC (5 V AC … 275 V AC)			
Output current	6 A			
Total current	12 A			
Response time	< 30 ms			
Contact material	AgSnO2			
Surface treatment	Au (1µM)			
Usage category	AC-15/DC-13			
Rated operating current (voltage)	3 A (250 V AC), 3 A (24 V DC)			
Response time	< 30 ms			
Data interface	Via field bus			

Diagnosis module

General data

	UE410-PRO3	UE410-PRO4	UE410-DEV3	UE410-DEV4
Ambient operating temperature	–25 °C … +55 °C			
Storage temperature	–25 °C … +70 °C			
Air humidity from … to	15 % … 95 %, non-dewing			
Climate conditions according to	EN 61131-2			
Vibration resistance	5 Hz … 500 Hz			
Vibration resistance (checked to)	EN 60068-2-64, EN 61131-2			
Enclosure rating	EN/IEC 60529			
Clamps	IP 40			
Housing	IP 20			
Electromagnetic compatibility (EMC)	Class A (EN 61131-2, EN 61000-6-2, EN 55011)			
Protection class	III			
Connection conductor cross-section	Single-wire or fine-wire conductor: 1 x 0.14 mm² … 2.5 mm² or 2 x 0.14 mm² … 0.75 mm² / fine-wire with terminal crimp according to EN 46288: 1 x 0.25 mm² … 2.5 mm² or 2 x 0.25 mm² … 0.5 mm²			
Connection type	Plug-in terminals	Dual level spring clamp terminals	Plug-in terminals	Dual level spring clamp terminals
Dimensions (W x H x D)	22.5 mm x 96.5 mm x 120.8 mm			
Weight	160 g			

Electrical data

	UE410-PRO3	UE410-PRO4	UE410-DEV3	UE410-DEV4
Supply voltage	24 V DC (19.2 V DC ... 30 V DC)			
Power consumption	1.6 W			
Control outputs (X1, X2)				
Number of outputs	4			
Type of output	PNP semiconductors, short-circuit protected			
Output voltage	18 V DC ... 30 V DC			
Output current	Max. 100 mA			
Load capacity	Max. 100 nF			
Data interface				
Field bus	RS-485		ISO-DIS 11898	
Communication behavior	PROFIBUS-DP		DeviceNet	
Connection type	V0		Group 2 Only Server	
Slave address	SUB-D 9 pole, female		Plug-in terminal 5 pole	
Transmission rate	0 ... 99		0 ... 63	
Cable length (transmission rate)	12 MBaud		125 KBit/s, 250 KBit/s, 500 KBit/s	
	1200 m (9,6 Kbits/s, 19,2 Kbits/s, 93,75Kbits/s), 1000 m (187,5 Kbits/s), 400 m (500 Kbits/s), 200 m (1500 Kbits/s), 100 m (12000 Kbits/s)		–	

Internal circuitry

Main unit UE410-MU
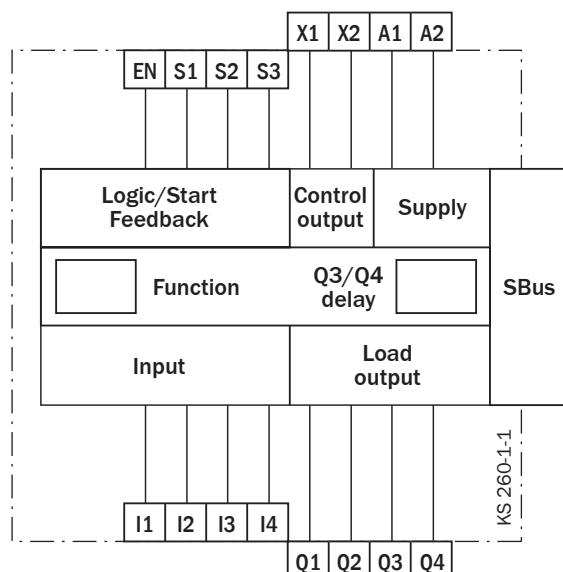
KS 260-1-1

Extension unit UE410-XU
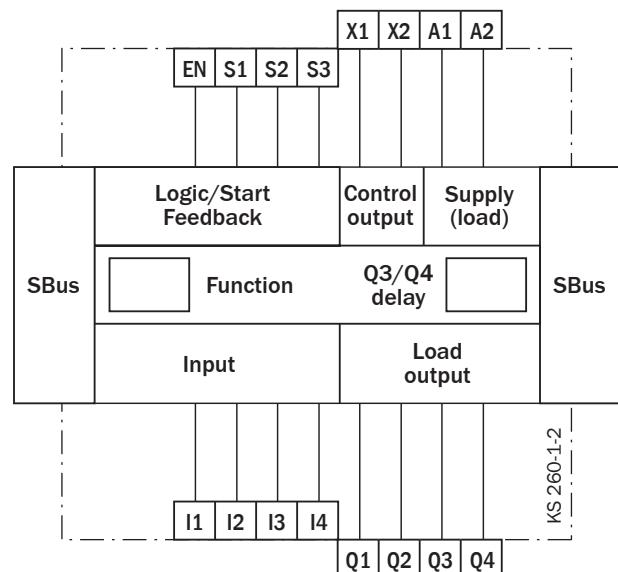
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Input expansion unit UE410-8DI

| X1 | X2 | X3 | X4 |

I1 I2 I3 I4

Input A   Output A

SBus   Input A   Input B   SBus

Input B   Output B

I5 I6 I7 I8

| X5 | X6 | X7 | X8 |

KS 260-1-3

Relay module UE410-2RO

| 13 | 23 | | |

| Y14 | Y1 | |

Y1 Y14 13 23

SBus K1 K2 SBus

B1 Y2 +24 (internal) 14 24

| B1 | Y2 | |

| 14 | 24 | | |

KS 260-1-10

Relay module UE410-4RO

| 13 | 23 | 33 | 43 |

| Y14 | Y1 | Y24 | Y3 |

Y1 Y3 Y14 Y24 13 23 33 43

SBus   SBus

B1 B2 Y2 Y4 +24 (internal) 14 24 34 44

| B1 | Y2 | B2 | Y4 |

| 14 | 24 | 34 | 44 |

KS 260-1-9
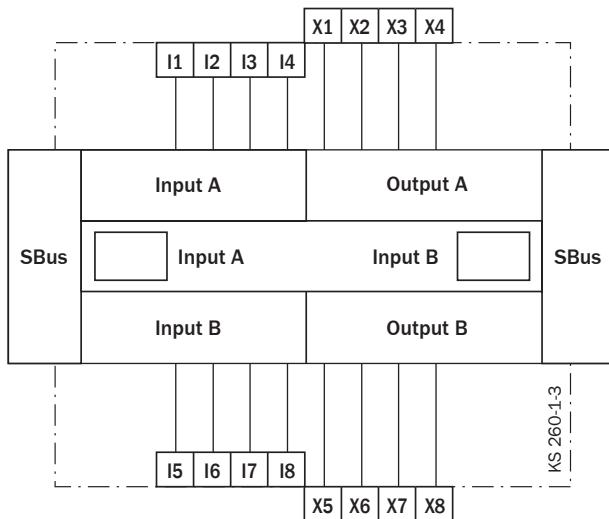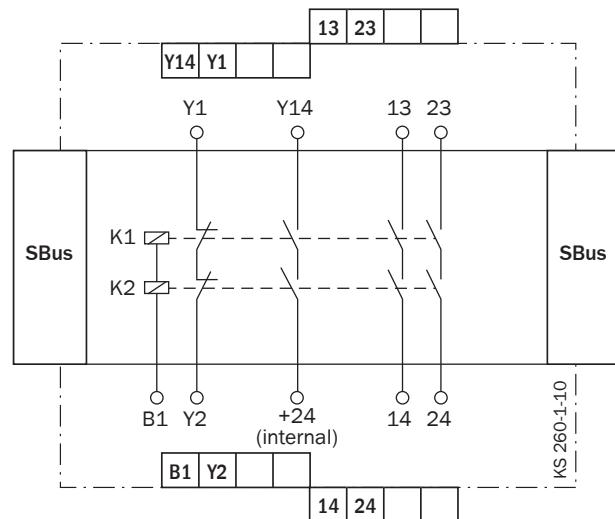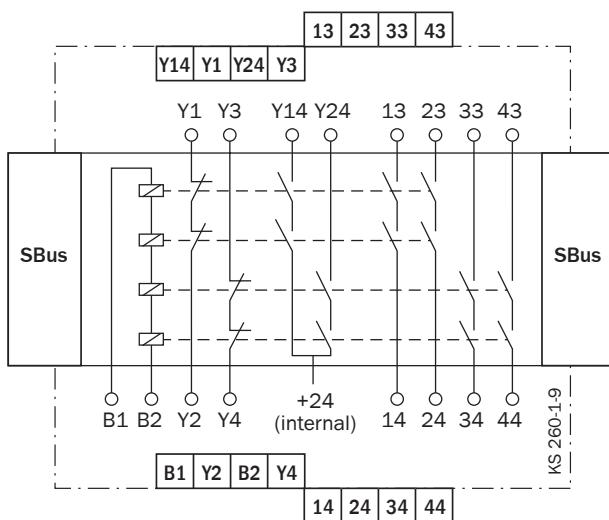
Diagnosis module UE410-PRO for PROFIBUS-DP

| X1 | X2 | X3 | X4 |

SBus   PROFIBUS-Function

RS-485

KS 260-1-5
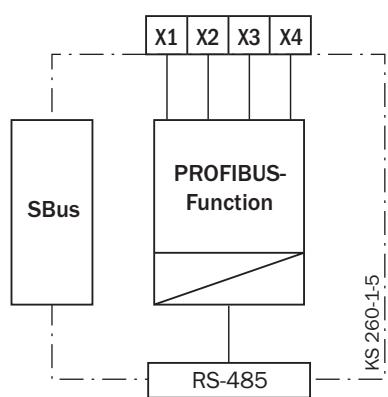
Diagnosis module UE410-DEV for DeviceNet

| X1 | X2 | X3 | X4 |

SBus   DeviceNet Function

ISO-DIS11898

KS 260-1-8
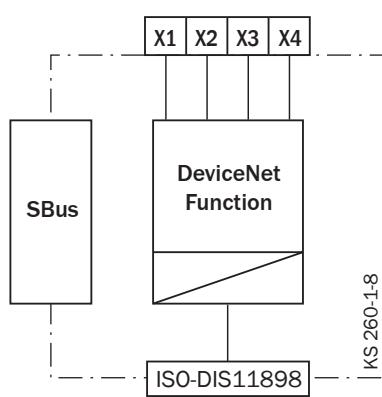
Dimensional drawings

Dimensions in mm

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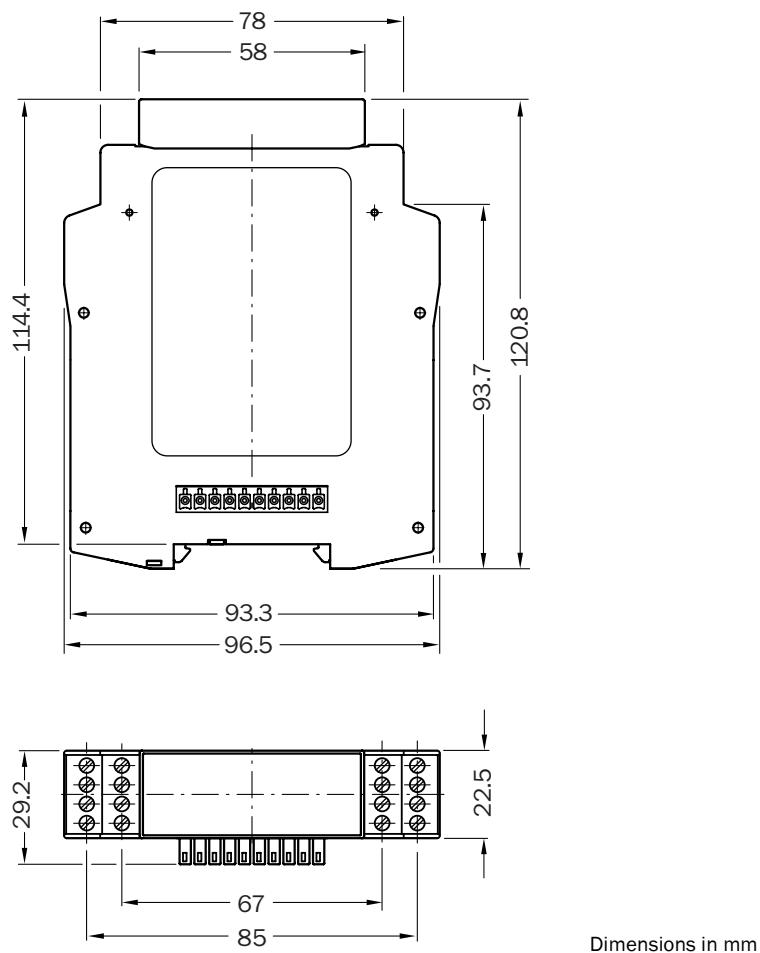
Connection diagrams

3 single-beam photoelectric safety switches WS/WE27-2 on UE410-MU
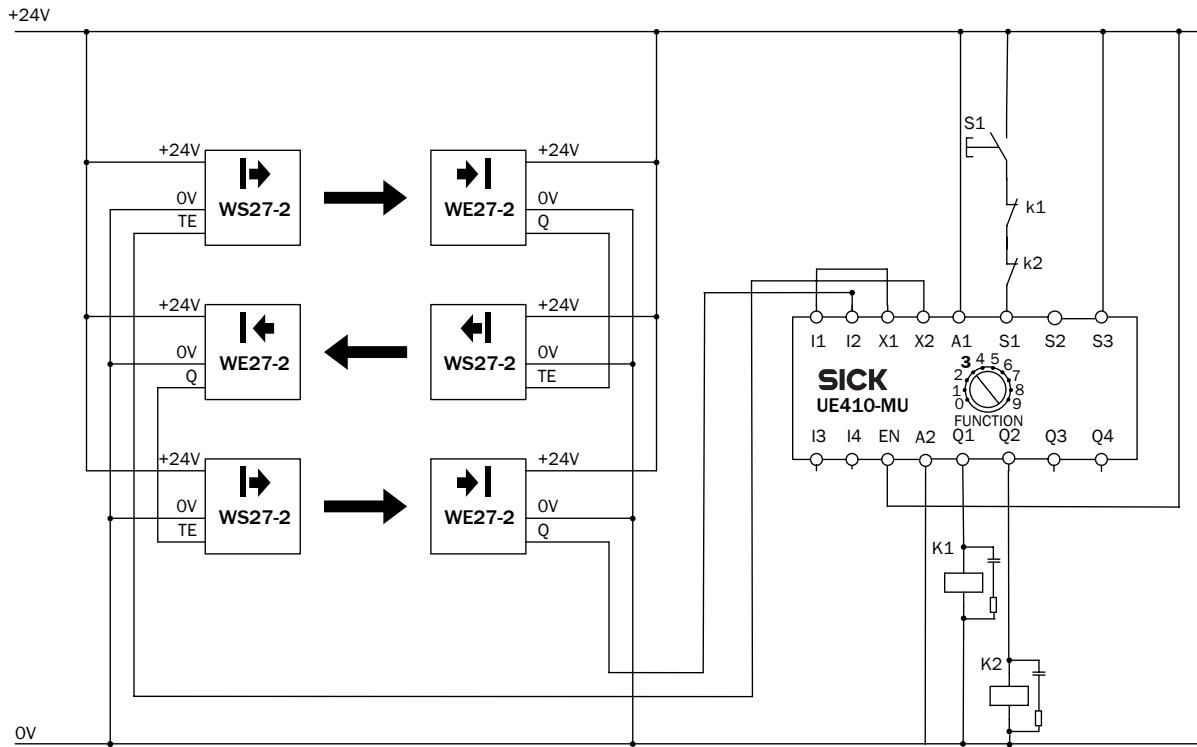
Program 3.2 with restart interlock and external device monitoring (EDM)

Emergency stop on UE410-MU
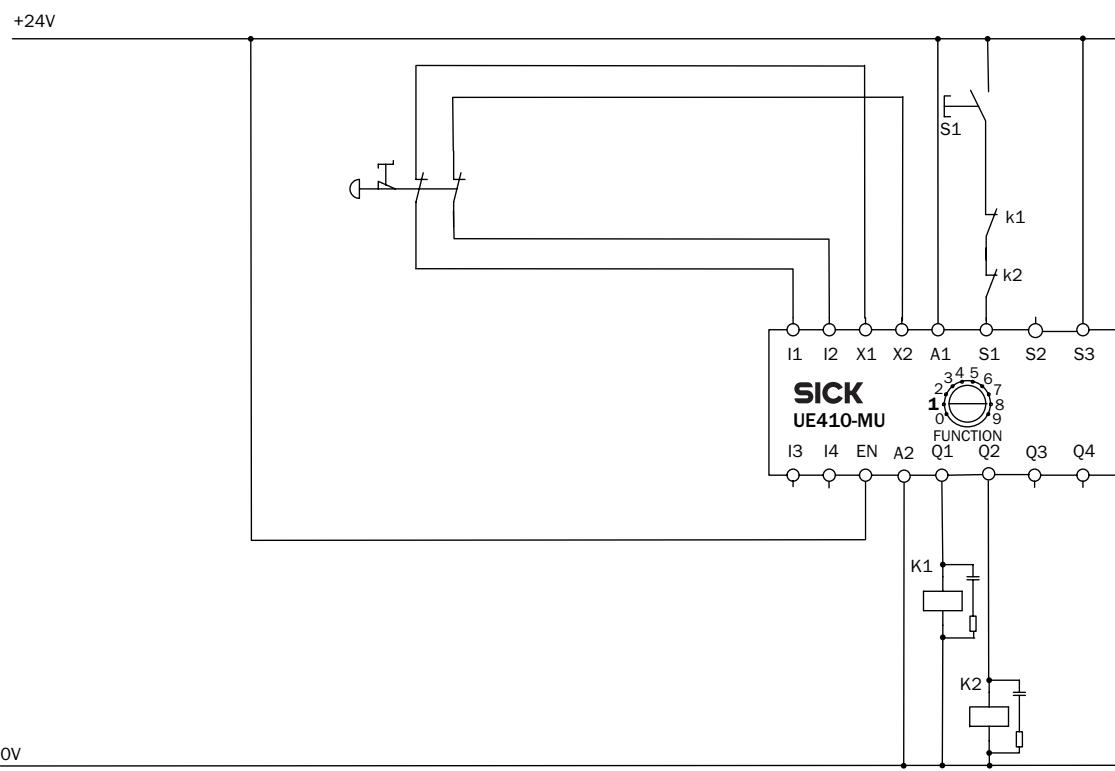
Program 1 with restart interlock and external device monitoring (EDM)

Non-contact safety switch RE300 on UE410-MU
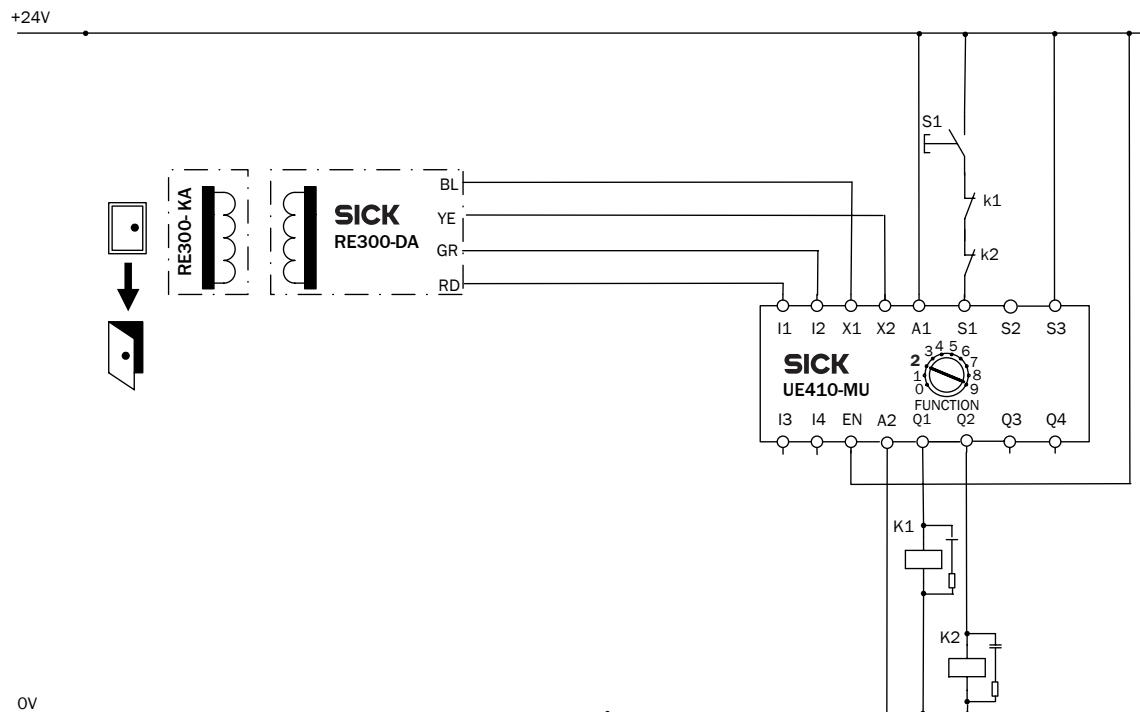
Program 2 with restart interlock and external device monitoring (EDM)

Two-hand control type III C on UE410-MU
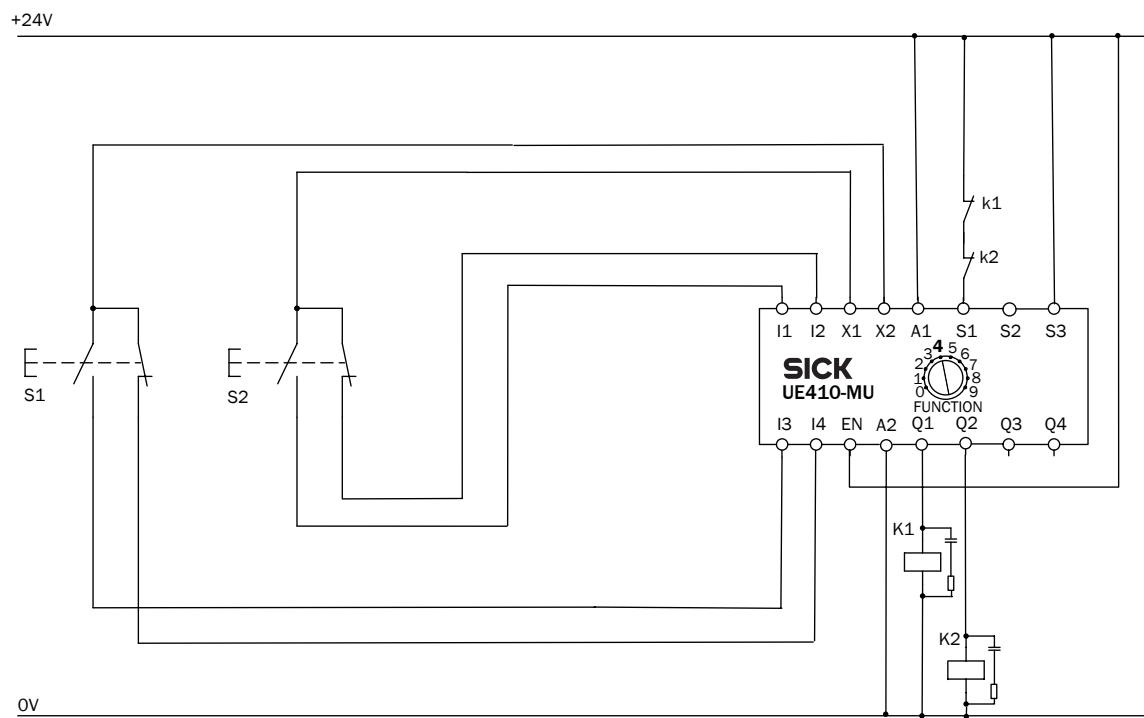
Program 4 without restart interlock and with external device monitoring (EDM)

Safety light curtain C2000 and emergency stop on UE410-MU
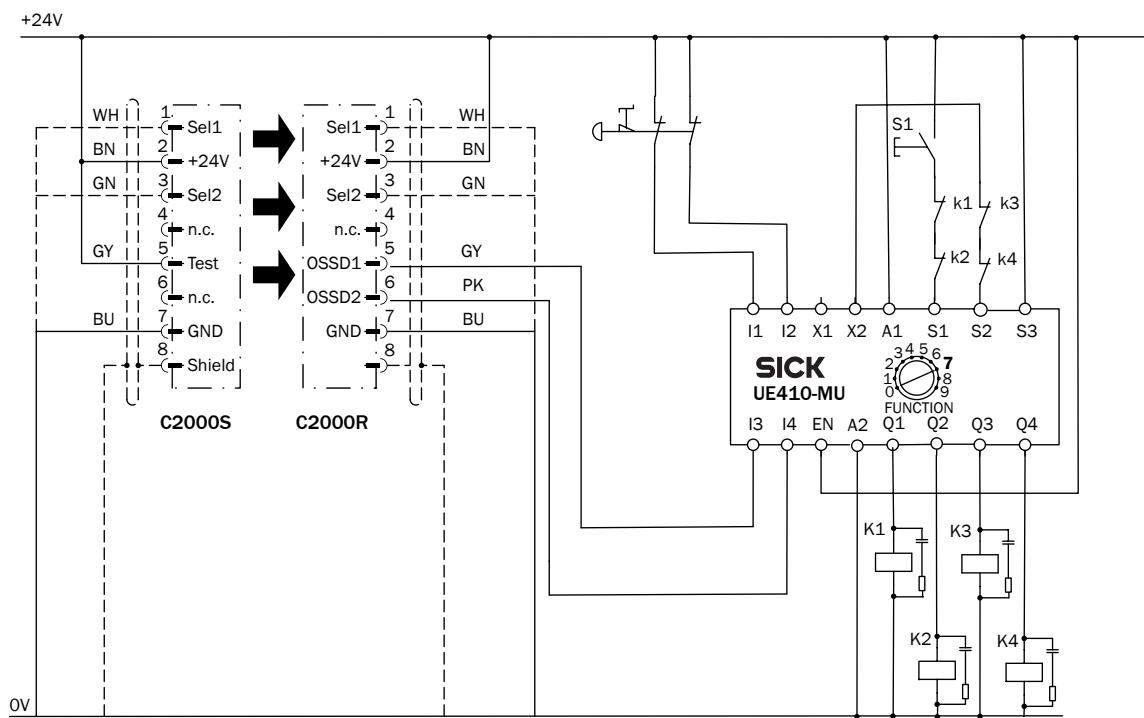
Program 7 with restart interlock and external device monitoring (EDM)

2 safety switches with separate actuator i11, 2 separate hazardous areas on UE410-MU
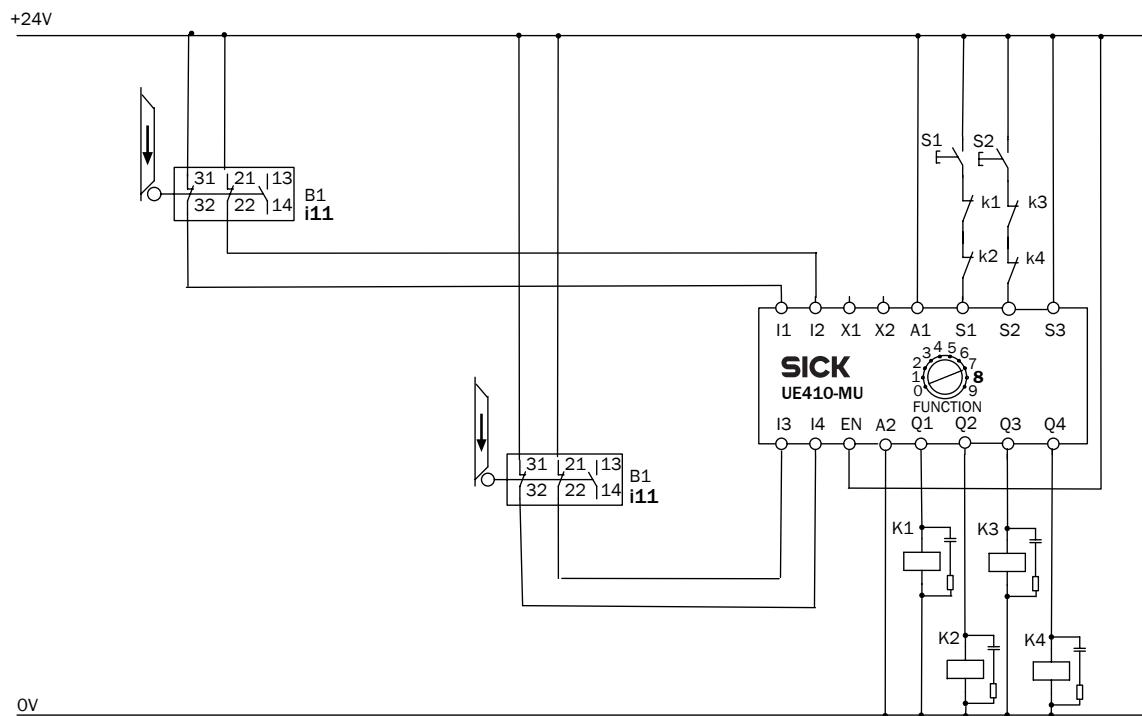

Program 8 with restart interlock and external device monitoring (EDM)

2 non-contact safety switches IN4000 on UE410-MU

Program 3.2 with restart interlock and external device monitoring (EDM)

8011770/2006-06-22

Safety light curtain C4000 with 2 muting sensors on UE410-MU
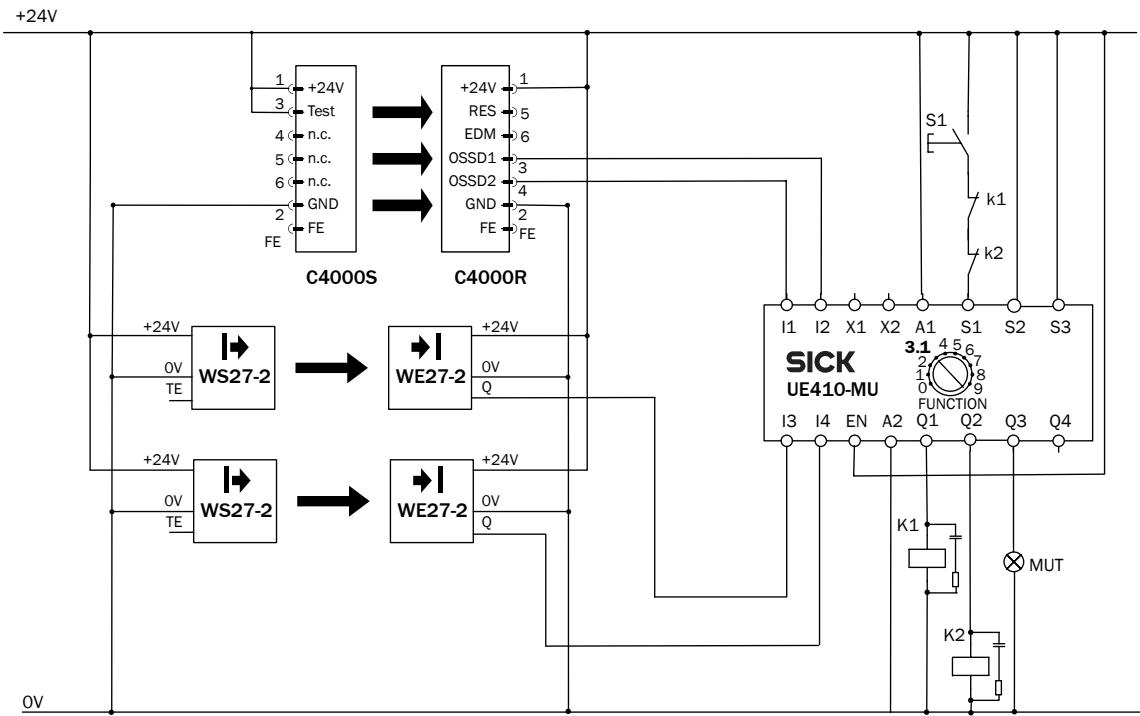
Program 3.1 with restart interlock and external device monitoring (EDM)

Accessories

Muting indicator lamp

Type of muting indicator	Cable length	Description	Remark connection cable	Part number
LED lamp	2 m	Incl. mounting kit	Incl. connection cable	2019909
	10 m			2019910
Indicator lamp (bulb)	–		Connecting cable not included	2020743

➜ Configuring UE410 Flexi modules: www.ue410flexi.com

SICK Industrial Safety Systems

Safety laser scanners

- S3000
- S300
- S200
- PLS
- PLS Short Range

Safety camera system

- V4000 Press Brake

Safety light curtains

- C4000 Micro
- C4000 Basic Plus, Basic, Eco
- C4000 Standard/Advanced
- C4000 Entry/Exit
- C4000 Palletizer
- M4000 Advanced Curtain
- C2000
- LGT

Multiple light beam safety devices

- M4000
- MSL
- MSL/MSM
- M2000

Single-beam photoelectric safety switches

- L4000 System
- WSU/WEU26/2
- WS/WE12-2 mit LE20
- WS/WE18-3 mit LE20
- WS/WE24-2 mit LE20
- WS/WE27-2 mit LE20
- VS/VE18-2 mit LE20

SICK Industrial Safety Systems

Electro-mechanical and non-contact safety switches

- Safety position switches
- Safety switches with separate actuator
- Safety locking devices
- Safety sensors
- Safety operating devices
- Safety hinge switches

Safety network solutions UE1000 series

- UE4120, UE4150, UE4155
- UE4212, UE4215, UE4231, UE4232, UE4233, UE4234
- UE4420, UE4421, UE4450,
- UE4470

Safety contollers UE100 series

- UE410 Flexi
- UE440, UE470
- UE4427, UE4457
- UE4470

Safety relays UE10 series

- UE10 to UE49

Software

- Safexpert

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