

Safety controllers Flexi Classic Muting in-/output expansion unit

UE410-XM4



Model Name > [UE410-XM4](#)
Part No. > [6034646](#)

At a glance

- Two different types: in-/output expansion modules and input expansion modules
- Two variants per type : module for common applications and an expert module for muting
- Modularly expandable
- 6 inputs, 4 outputs or 8 inputs
- Small width of 22.5 mm
- Pluggable terminals for a fast module replacement
- PNP outputs, each up to 2A

Your benefits

- Only one configuration for the complete system, simplifying commissioning
- Rich diagnostic functions available via Fieldbus gateway module
- Easy to expand if more inputs are required
- Easy diagnostics via clear LED status indicators
- Use of powerful PNP semiconductor outputs allows to remove relays



Applications

Emergency stop pushbuttons:	-
Opto-electronic protective devices:	✓
Non-contact safety switches:	✓
Two-hand control systems:	-
Testable inductive sensors:	-
Electro-mechanical safety switches:	-

Safety-related parameters

Safety integrity level:	SIL3 (IEC 61508), SILCL3 (IEC 62061)
Category:	Category 4 (EN ISO 13849)
Performance level:	PL e (EN ISO 13849)
PFHd:	7.9 * 1E-09
TM (mission time):	20 a

Functions

Number of reset-/restart inputs:	1
Number of external device monitoring:	1
Muting:	✓

Override:	✓
Belt stop:	-
Concurrence monitoring:	✓
Monitoring total muting time:	✓
Sensor gap monitoring:	✓
End of muting by ESPE:	✓
Logical functions:	Muting, override
Safe device communication via EFI/SDL:	-

Electrical data

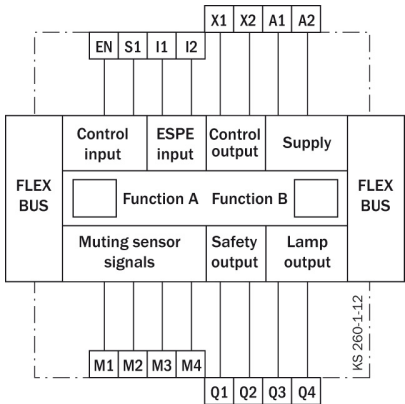
Supply voltage:	24 V DC (19.2 V DC ... 30 V DC)
Type of supply voltage:	PELV (electrical output circuit on UE410-4RO/UE410-2RO > 25 V AC/60 V DC), PELV or SELV (electrical output circuit on UE410-4RO/UE410-2RO < 25 V AC/60 V DC)
Power consumption:	3 W
Protection class:	EN 61140
Ripple:	≤ 3 V
Switch-on time:	10 s
Short-circuit protection:	4 A gG
Number of inputs:	1 dual-channel and 4 single-channel
Input voltage HIGH:	15 V DC ... 30 V DC
Input voltage LOW:	-5 V DC ... 5 V DC
Input current HIGH:	2.3 mA ... 3 mA3.6 mA
Input current LOW:	-2.5 mA ... 0.15 mA
Switch-on time of inputs:	70 ms
Number of muting sensors:	2, 4
Muting time to operate:	70 ms
Tolerated muting sensor signal interrupt:	200 ms ¹⁾
Total muting monitoring time:	Activation and time adjustable 0.33 ... 60 min
Number of outputs:	1 dual-channel and 2 single-channel
Type of output:	PNP semiconductors, short-circuit protected, cross-circuit monitored
Output voltage:	18 V DC ... 30 V DC
Output current:	2 A
Response time:	≤ < 13 ms

¹⁾ One muting input may be LOW for this time

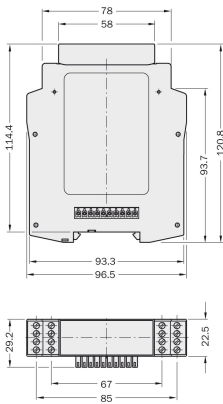
Ambient data

Enclosure rating terminals:	IP 20
Protection class housing:	IP 40
Ambient operating temperature:	-25 °C ... 55 °C
Storage temperature:	-25 °C ... 70 °C
Air humidity:	15 % ... 95 %, non-condensing
Climate conditions according to:	EN 61131-2
Electromagnetic compatibility (EMC):	EN 61000 EN 55011
Vibration resistance:	5 g, 5 Hz ... 500 Hz (EN 60068-2-6)
Connection type:	Cable gland
Connection type:	Plug-in spring terminals
Dimensions (W x H x D):	22.5 mm x 96.5 mm x 120.8 mm
Weight:	180 g

Connection diagram



Dimensional drawing



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