

Safety controllers
Flexi Classic Expansion unit



Model Name > [UE410-XU3T5](#)
Part No. > [6032470](#)

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)
Category:	Category 4 (EN ISO 13849)
Performance level:	PL e (EN ISO 13849)
PFHd:	2.5 * 1E-09 6.0 * 10-9
TM (mission time):	20 a
Stop category:	0 (EN 60204)

Functions

Number of reset-/restart inputs:	2
Number of external device monitoring:	2
Muting:	✓
Logical functions:	OR, AND, BYPASS, Muting
Safe device communication via EFI/SDL:	-

Electrical data

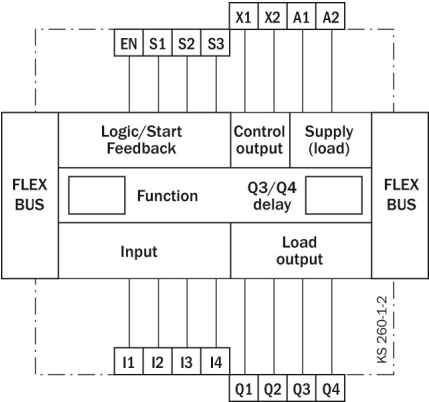
Supply voltage:	24 V DC (19.2 V DC ... 30 V DC)
Type of supply voltage:	PELV (electrical output circuit on UE410-4RO/UE410-2RO > 25 V AC/60 V DC), PELV or SELV (electrical output circuit on UE410-4RO/UE410-2RO < 25 V AC/60 V DC)
Power consumption:	3 W
Protection class:	EN 61140
Ripple:	≤ 3 V
Switch-on time:	60 s
Short-circuit protection:	4 A gG
Number of inputs:	2 dual-channel or 4 single-channel
Input voltage HIGH:	13 V DC ... 30 V DC
Input voltage LOW:	-5 V DC ... 5 V DC
Input current HIGH:	2.4 mA ... 3.8 mA
Input current LOW:	-2.5 mA ... 2.1 mA
Switch-on time of inputs:	70 ms
Synchronous time monitoring:	1,500 ms (at program 2), 500 ms (at program 4 and 5)
Number of muting sensors:	0, 2
Muting time to operate:	61 ms, at program 3 ¹⁾
Tolerated muting sensor signal interrupt:	100 ms, at program 3 ²⁾
Number of outputs:	2 dual-channel or 4 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 ≤ 79 ms ³⁾

¹⁾ Time between valid muting condition and active muting ²⁾ One muting input may be LOW for this time ³⁾ Depending on the selected program and the connected sensors

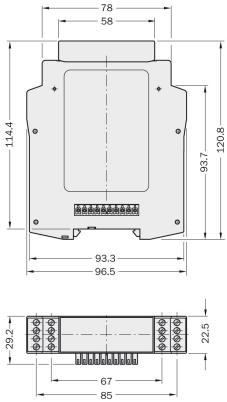
Ambient data

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 screw-type 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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