

# FX3-EBX400012

Interface modules

INTEGRATION MODULES AND ADAPTERS

**SICK**  
Sensor Intelligence.



Illustration may differ



### Ordering information

Type	part no.
FX3-EBX400012	2117330

Other models and accessories → [www.sick.com/Interface\\_modules](http://www.sick.com/Interface_modules)

### Detailed technical data

#### Features

<b>Product segment</b>	Integration modules and adapters
<b>Product</b>	Interface modules
<b>Specialty</b>	Dual encoder connection unit with protective coating

#### Certificates

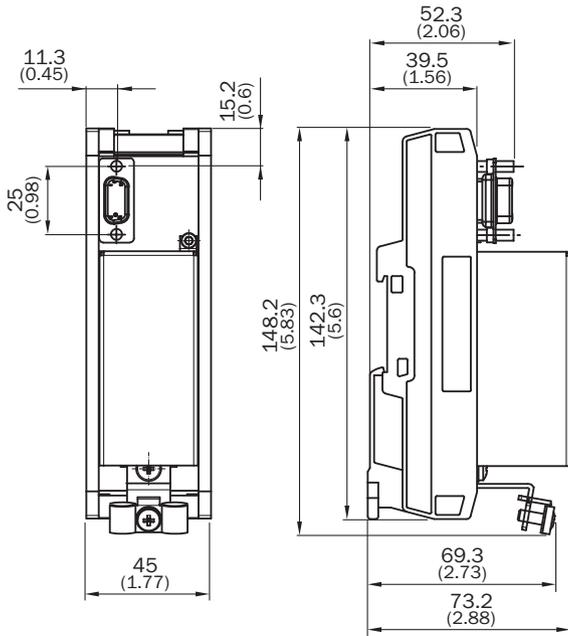
<b>EU declaration of conformity</b>	✓
<b>UK declaration of conformity</b>	✓
<b>ACMA declaration of conformity</b>	✓
<b>China RoHS</b>	✓
<b>cULus certificate</b>	✓

#### Classifications

<b>ECLASS 5.0</b>	27243092
<b>ECLASS 5.1.4</b>	27243092
<b>ECLASS 6.0</b>	27249204
<b>ECLASS 6.2</b>	27249204
<b>ECLASS 7.0</b>	27249204
<b>ECLASS 8.0</b>	27249204
<b>ECLASS 8.1</b>	27249204
<b>ECLASS 9.0</b>	27243192
<b>ECLASS 10.0</b>	27243192
<b>ECLASS 11.0</b>	27243192
<b>ECLASS 12.0</b>	27243192
<b>ETIM 5.0</b>	EC001604
<b>ETIM 6.0</b>	EC001604

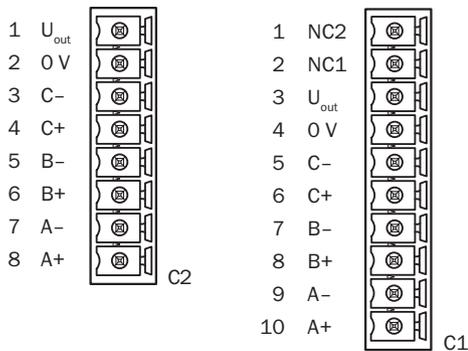
<b>ETIM 7.0</b>	EC000474
<b>ETIM 8.0</b>	EC000474
<b>UNSPSC 16.0901</b>	32151705

Dimensional drawing



Dimensions in mm (inch)

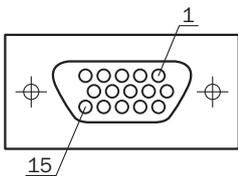
PIN assignment



Spring terminals	PIN	Signal	Description
C1	1	NC2	Do not connect. Used to forward a signal.
	2	NC1	Do not connect. Used to forward a signal.
	3	U <sub>out</sub>	Encoder voltage supply of the on-board voltage supply of this motor feedback splitter box

Spring terminals	PIN	Signal	Description
	4	ENC1_OV	GND encoder connection
	5	ENC1_C-	Encoder 1, channel C, negative signal
	6	ENC1_C+	Encoder 1, channel C, positive signal
	7	ENC1_B-	Encoder 1, channel B, negative signal
	8	ENC1_B+	Encoder 1, channel B, positive signal
	9	ENC1_A-	Encoder 1, channel A, negative signal
	10	ENC1_A+	Encoder 1, channel A, positive signal
-	-	-	-
C1	1	U <sub>out</sub>	Encoder voltage supply of the voltage controller of this connection box
	2	ENC_OV	GND encoder connection
	3	ENC2_C-	Encoder 2, channel C, negative signal
	4	ENC2_C+	Encoder 2, channel C, positive signal
	5	ENC2_B-	Encoder 2, channel B, negative signal
	6	ENC2_B+	Encoder 2, channel B, positive signal
	7	ENC2_A-	Encoder 2, channel A, negative signal
	8	ENC2_A+	Encoder 2, channel A, positive signal

### PIN assignment



PIN	Signal	Description
1	ENC1_A+	Encoder 1, signal pair A, positive signal
2	ENC1_A-	Encoder 1, signal pair A, negative signal
3	ENC1_24V	24 V voltage supply for encoder 1
4	ENC2_A+	Encoder 2, signal pair A, positive signal
5	ENC2_A-	Encoder 2, signal pair A, negative signal
6	ENC1_B+	Encoder 1, signal pair B, positive signal
7	ENC1_B-	Encoder 1, signal pair B, negative signal

PIN	Signal	Description
8	ENC_OV	0 V voltage supply for encoder 1 and encoder 2
9	ENC2_B+	Encoder 2, signal pair B, positive signal
10	ENC2_B-	Encoder 2, signal pair B, negative signal
11	ENC1_C+	Encoder 1, signal pair C, positive signal
12	ENC1_C-	Encoder 1, signal pair C, negative signal
13	ENC2_24V	24 V voltage supply for encoder 2
14	ENC2_C+	Encoder 2, signal pair C, positive signal
15	ENC2_C-	Encoder 2, signal pair C, negative signal

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)