# FX3-EBX400012

**SICK**
Sensor Intelligence.

# FX3-EBX400012



Illustration may differ

CE

## Ordering information

| Type | Part no. |
|------|----------|
| FX3-EBX400012 | 2117330 |

Protective coating for more challenging ambient conditions (e.g., resistance to sulfur).

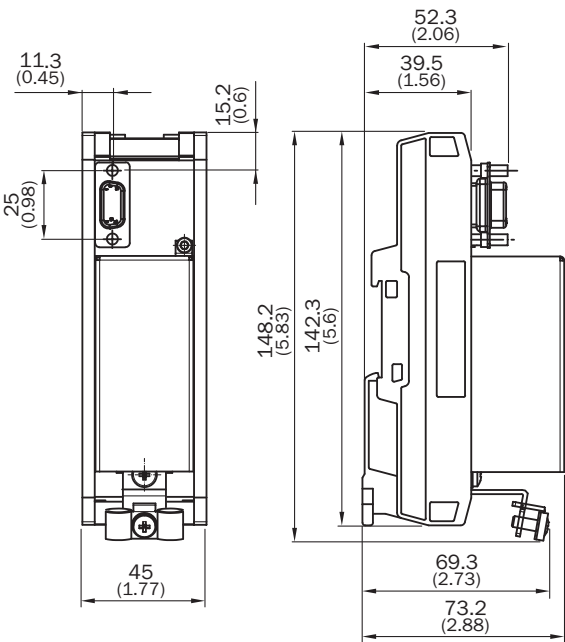Other models and accessories ➜ www.sick.com/

## Detailed technical data

### Technical specifications

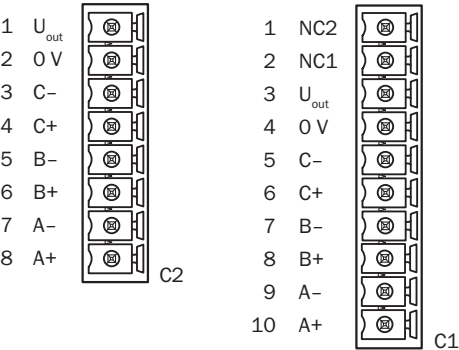| | |
|---|---|
| **Accessory family** | Connection modules |
| **Note** | Protective coating for more challenging ambient conditions (e.g., resistance to sulfur). |
| **Description** | Dual encoder connection unit: Facility for connecting two encoders. Connection to Motion Control Modules FX3-MOC: Female connector, D-Sub HD, 15-pin. With protective coating for more challenging ambient conditions (e.g., resistance to sulfur). |

### Classifications

| | |
|---|---|
| **ECLASS 5.0** | 27243092 |
| **ECLASS 5.1.4** | 27243092 |
| **ECLASS 6.0** | 27249204 |
| **ECLASS 6.2** | 27249204 |
| **ECLASS 7.0** | 27249204 |
| **ECLASS 8.0** | 27249204 |
| **ECLASS 8.1** | 27249204 |
| **ECLASS 9.0** | 27243192 |
| **ECLASS 10.0** | 27243192 |
| **ECLASS 11.0** | 27243192 |
| **ECLASS 12.0** | 27243192 |
| **ETIM 5.0** | EC001604 |
| **ETIM 6.0** | EC001604 |
| **ETIM 7.0** | EC000474 |
| **ETIM 8.0** | EC000474 |
| **UNSPSC 16.0901** | 32151705 |

## Dimensional drawing (Dimensions in mm (inch))



## PIN assignment



| 1 | $U_{out}$ |
| 2 | 0 V |
| 3 | C– |
| 4 | C+ |
| 5 | B– |
| 6 | B+ |
| 7 | A– |
| 8 | A+ |

C2

| 1 | NC2 |
| 2 | NC1 |
| 3 | $U_{out}$ |
| 4 | 0 V |
| 5 | C– |
| 6 | C+ |
| 7 | B– |
| 8 | B+ |
| 9 | A– |
| 10 | A+ |

C1

| 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 | $U_{out}$ | Encoder voltage supply of the on-board voltage supply of this motor feedback splitter box |
| | 4 | ENC1_0V | 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 |

| Spring terminals | PIN | Signal | Description |
|---|---|---|---|
| | 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 | $U_{out}$ | Encoder voltage supply of the voltage controller of this connection box |
| | 2 | ENC_0V | 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 | 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 |
| 8 | ENC_0V | 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 |

| PIN | Signal | Description |
| --- | --- | --- |
| 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 |
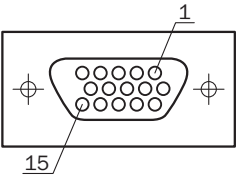
## SICK AT A GLANCE

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**

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