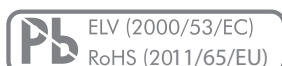


Product description

MAIN FEATURES

CABLE AND CONNECTOR CONNECTION

- › E33 types only with SMT option available
- › With and without debounce circuit
- › Various option and customization possible
- › Easy assembly and integration of the turnkey solution



MIL-STD-202G

SWISS CLICK INDEXING SYSTEM™

(for more information see chapter «Technical explanations»)

PRODUCT VARIETY

- With and without debounce circuit
- With Micro-MaTch socket
- With FFC connector
- With soldering connection
- With ribbon cable

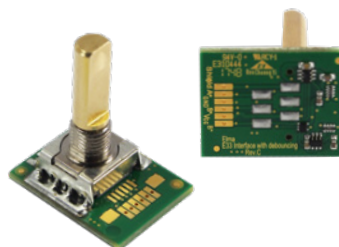
POSSIBLE CUSTOMIZATIONS

- Other connector types
- Different cable length
- Flexible circuit board
- Integration of a custom circuit

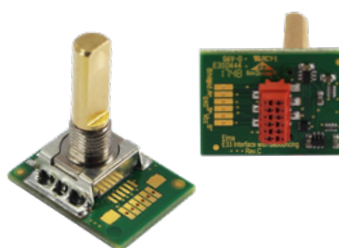
TYPICAL APPLICATIONS

- Value and menu controls for programmable industrial controllers
- Aerospace electronics, measuring and testing equipment
- Controls of the user interface for medical devices
- Volume and menu settings for transport controls and entertainment systems

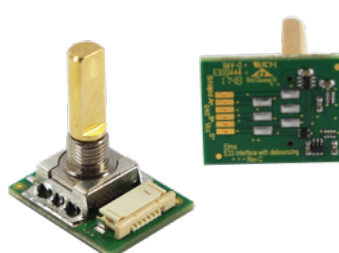
E33 INTERFACE with debounce circuit & soldering connection



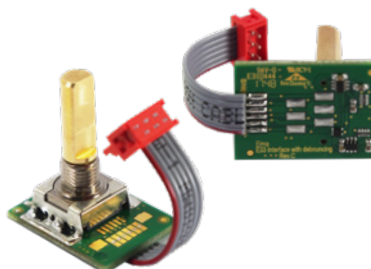
E33 INTERFACE with Micro-MaTch socket



E33 INTERFACE with FFC connector



E33 INTERFACE with ribbon cable

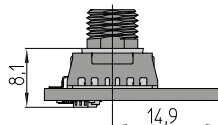
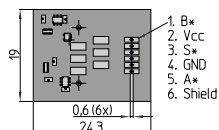


Dimensions and pin assignment

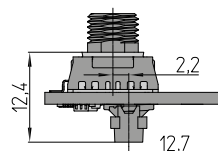
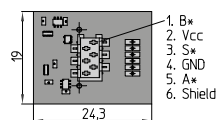
SWITCH DESIGN

WITH DEBOUNCING

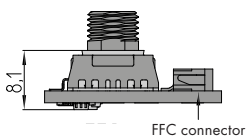
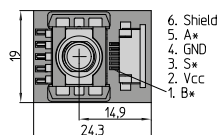
With soldering connection



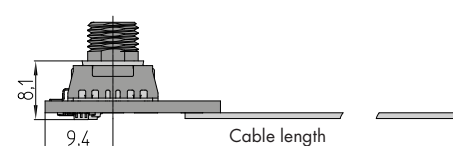
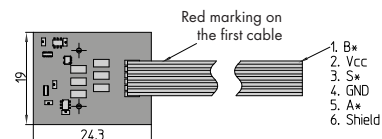
With Micro-MaTch socket



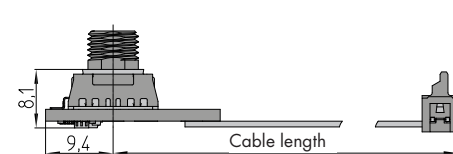
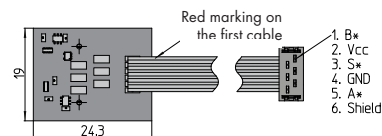
With FFC connector



With ribbon cable



With ribbon cable and Micro-MaTch socket



Dimensions in mm

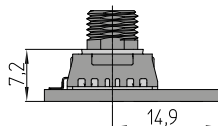
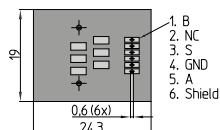
Tolerances according to DIN ISO 2768-1 (m), unless otherwise specified

Dimensions and pin assignment

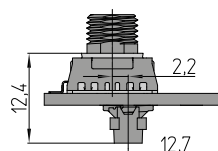
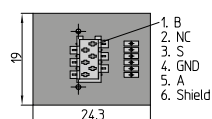
SWITCH DESIGN

WITHOUT DEBOUNCING

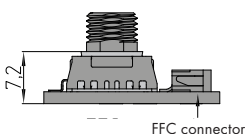
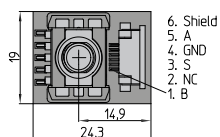
With soldering connection



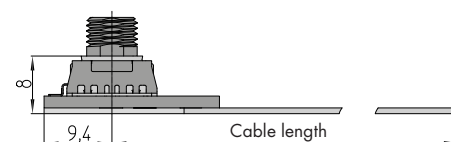
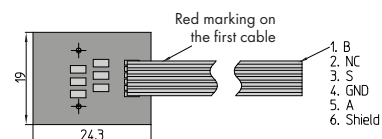
With Micro-MaTch socket



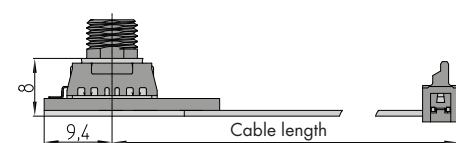
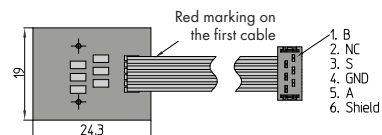
With FFC connector



With ribbon cable



With ribbon cable and Micro-MaTch connector



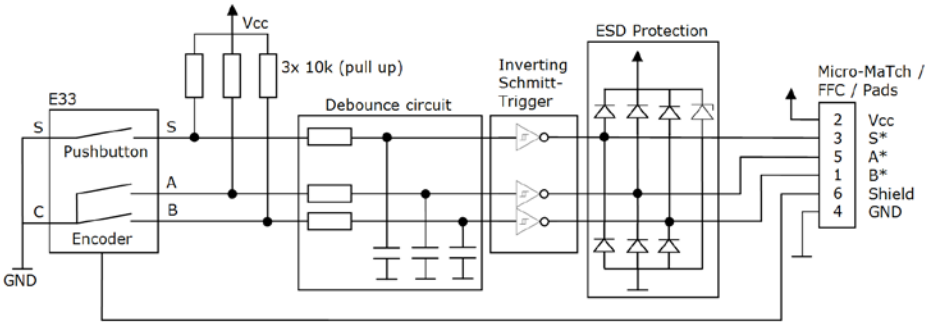
Dimensions in mm

Tolerances according to DIN ISO 2768-1 (m), unless otherwise specified

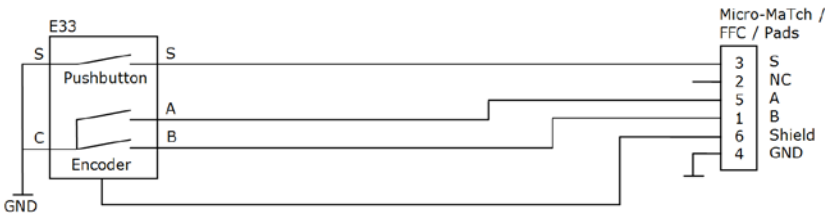
Circuit diagram

RECOMMENDED SYSTEM INTERFACE

WITH DEBOUNCING



WITHOUT DEBOUNCING



Ordering information

ORDERING CODE

E33	-	-	-	-
------------	---	---	---	---

DEBOUNCING	
D	With pull-up and debouncing
N	Without debouncing

CONNECTOR CABLE ON PCB	
W	Without connector, without cable
M	Micro-MaTch socket (1.27 mm pitch, 6 pins)
F	FFC connector (1 mm pitch, 6 pins)
1	5 cm ribbon cable (1.27 mm pitch, 6 wires)
2	10 cm ribbon cable (1.27 mm pitch, 6 wires)
3	15 cm ribbon cable (1.27 mm pitch, 6 wires)
4	20 cm ribbon cable (1.27 mm pitch, 6 wires)
5	25 cm ribbon cable (1.27 mm pitch, 6 wires)
6	30 cm ribbon cable (1.27 mm pitch, 6 wires)

CONNECTOR AT CABLE END	
A	Without connector
B	Micro-MaTch socket*
* The connector can only be selected if the PCB is selected with a cable	

Dimensions in mm
Tolerances according to DIN ISO 2768-1 (m), unless otherwise specified

Ordering information

PACKAGING

Antistatic blister box:

23 pieces

Customized solutions

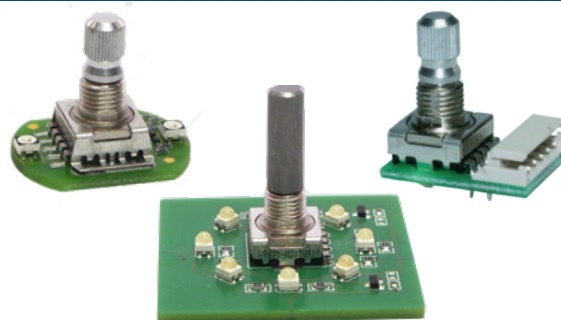
CUSTOMIZED FLEXIBLE CIRCUIT BOARDS

- › Customized flexible circuit board layout
- › Customized rigid-flex circuit boards

E33 with flexible circuit board

CUSTOMIZED SOLUTIONS ON REQUEST

- › Integration of electronic components / modules
- › Integration of individual lighting solutions (LED)
- › Integration of individual connector solutions

E33 customized circuit board solutions

Specifications

Electrical data

Electrical connection:	Micro-MaTch socket FFC connector Soldering connection Ribbon cable
Operating voltage (Vcc):	1.65 to 5.5 V (for version with debouncing)
Switching voltage:	< 15 VDC (for version without debouncing)
Contact bouncing:	< 2 ms (at 60 rpm) (for version without debouncing)

Environmental data

Operating temperature:	-25 to 85 °C (IEC 60068-2-14)
Storage temperature:	-65 to +125 °C (IEC 60068-2-14, MIL-STD202G, method 107G, condition B-3)

©Copyright 2018 by Elma Electronic AG, CH-8620 Wetzikon. Subject to technical modifications, all data supplied without liability.

Please contact our sales team for more details.

China: +86 21 5866 5908
France: +33 388 56 72 50

Germany: +49 7231 97 34 0
Israel: +972 3 930 50 25

Singapore: +65 6479 8552
Switzerland: +41 44 933 41 11

United Kingdom: +44 1234 838 822
United States: +1 510 656 3400