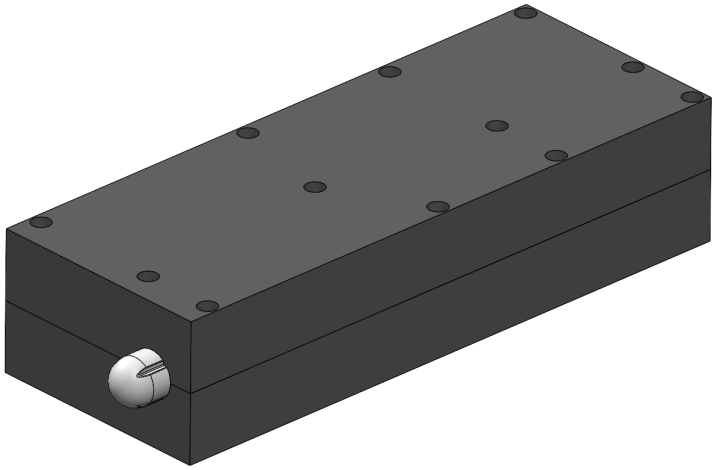
SPECIFICATION EXAMPLE: DOOR OPENING MODULE



DESCRIPTION

EBE develops and manufactures intelligent door opening modules for various applications. Modules incorporate mechatronics and sensor technology. Due to EBE's inhouse technology and know-how of innovative sensors, software engineering and robust drives door opening modules from EBE allow highly intelligent and sophicated solutions.

This specification example showcases a possible custom solution. Basically any specification is possible to adopt to the required need.

Automatic door openers with a push-to-open trigger detect light pressure on the appliance door. The unlocking module is triggered mechanically or by intelligent sensor technology, whereby an inductive displacement measuring system measures the relative movement to the rest position of the door. The pull-to-open trigger is suitable for various applications, including large or heavy doors and vacuum-sealed doors.

SPECIFICATION EXAMPLE

EBE Elektro-Bau-Elemente GmbH
Sielminger Straße 63
Germany - 70771 Leinfelden-Echterdingen

TECHNICAL DATA – SPECIFICATION EXAMPLE

CONSTRUCTION AND MECHANICAL DATA (TYPICAL VALUES, T=23 °C)

MEASUREMENTS (LxWxH)	min. 130x50x30 mm
OPENING DISTANCE	up to 70mm
OPENING FORCE (ON AXIS)*	up to 140N
OPENING / CLOSING TIME*	max. 3 seconds, acc. to force and distance
OVERLOAD SAFETY FORCE	above 170N, automated latch-in function min. 500 activation cycles
SPEED	adjustable
MOUNTING	M5 through-hole mounting others possible
ACTUATION MECHANISM	electromechanical mechanism with motor and gear
POSITION DETECTION AT INITIALIZATION	yes
BEARING	plain bearing
ACTIVATING	electrical signal or by intelligent sensor technology
LIFE EXPECTANCY	200.000 cycles

ELECTRICAL DATA (TYPICAL VALUES, T=23 °C)

OPERATION VOLTAGE	12 V DC
POWER CONSUMPTION	max. 11 W
COMMUNICATION PROTOCOL	1-wire protocol, custom protocol's on request
CONNECTOR	e.g. RAST2.5

ENVIRONMENTAL CONDITIONS

OPERATING TEMPERATURE	+10 to +50 °C
STORAGE TEMPERATURE	-30 to +70 °C
HUMIDITY	20 – 95 % rH non-condensing
MAX. HEIGHT	2000 m
REACH/ROHS	compliant

*Maximum opening force and opening speed depends on electrical power

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OTHER INFORMATION

PINOUT

PIN	SIGNAL	DESCRIPTION
1	VCC	positive power supply
2	1-Wire bus	1-wire bidirectional bus communication
3	GND	Ground power supply

SPECIFICATION EXAMPLE

DISCLAIMER

The information contained in this document is for general guidance only. The user is responsible for determining the suitability of the technical information referred to herein for his application. On delivery of the component, EBE is only obliged to implement those properties set out and agreed upon in this technical data sheet. Further properties are not included. No guarantee is given. The component has been designed for installation in our customer's products. Manufacturer of the resulting product and consequent liability according to the Product Liability Act lies with the customer.

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