EPEC SC52 SAFETY CONTROL UNIT
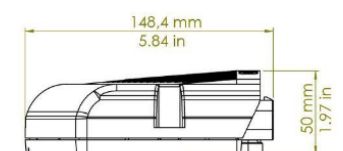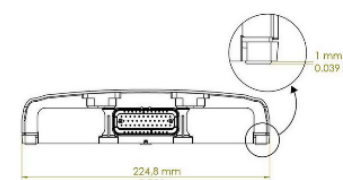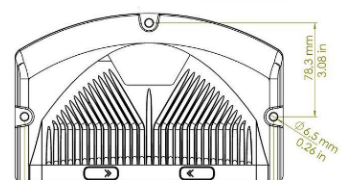
Epec SC52 is a state-of-the-art controller for safety-related systems in mobile machinery. Outputs in SC52 have a high-side current measurement, so only one I/O pin is needed to control proportional valves.

SC52 offers a flexible solution for software-based safety function implementation. Together with the SC52 controller, Epec offers a set of pre-certified PLCopen application libraries in order to reduce customer's safety related software development effort.

TECHNICAL FEATURES

Up to SIL2 (IEC 61508:2010 and IEC 62061:2005) and PLd/Cat 3 (ISO 13849-1:2015), as a stand-alone controller

Support for Cat2 architecture when using intelligent safety certified sensors

Processor: 32 bit multicore CPU with lock-step and memory protection

Flash memory: 8 Mbyte

RAM: 512 kbyte

PLCopen application size: up to 1024 kbyte

CAN: 2

I/O: 22 (14 inputs + 8 outputs)

IP class: IP67

Temperature range: -40 ... + 85 °C
-40 ... +185 °F

Connectors: 1 x AMP 35

CODESYS version: 3.5 SP10

CODESYS V3 Safety SIL 2 programming

Supported CAN protocols: CANopen, CANopen Safety, SAEJ1939

CANopen Safety protocol for safety-related communication according to EN50325-5

Extensive set of pre-certified PLCopen libraries for safety related applications

Three-colored diagnostic LED for quick status check and fault detection

APPROVALS

Symbol / Name	Explanation
CE	This product complies with the requirements set in the CE Standard.
E17	This product is certified with normal automotive (E17) EMC (electromagnetic compatibility) standards.
RoHS2	This product complies with the RoHS directive (The Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment).
EU declaration of conformity	This device is in compliance with Directive 2014/53/EU.
Functional Safety Certification	TÜV SÜD Certification and EC-Type examination no. Z10 18 03 03772 001 EN ISO 13849:2015 PL d Cat 3 EN IEC 61508:2010 SIL 2 IEC 62061 SIL 2 Certification also includes yearly Epec factory inspection

VARIANTS & MANUALS

Ordering code	E30FSC52-020
Technical Manual ID	MAN000676
Safety Manual	MAN000674
CAN	2
5 V REF	2
PWM / DO	8
AI / DI	5
AI / DI (CAT 2)	5
AI / DI / PI	4
CODESYS version	3.5 SP10

YOUR CHALLENGE, OUR INSPIRATION.

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