

UE401-A0010

UE401

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Ordering information

Type	part no.
UE401-A0010	6027343

Other models and accessories → www.sick.com/UE401



Detailed technical data

Features

Application	Evaluation unit
Description	UE401 evaluation unit
Response time	≤ 30 ms
Compatible sensor types	L4000 Systems single-beam photoelectric safety switches
Number of sensor pairs (sender and receiver)	1 ... 8

Safety-related parameters

Type	Type 4 (IEC 61496-1) ¹⁾
Safety integrity level	SIL 3 (IEC 61508) ¹⁾
Category	Category 4 (EN ISO 13849) ¹⁾
Performance level	PL e (EN ISO 13849) ¹⁾
PFH_D (mean probability of a dangerous failure per hour)	2.9 x 10 ⁻¹⁰ (EN ISO 13849) ¹⁾
T_M (mission time)	20 years (EN ISO 13849) ¹⁾
Safe state in the event of a fault	At least one OSSD is in the OFF state.

¹⁾ Only in conjunction with L40 sensors.

Functions

Restart interlock	✓
Restart interlock (delivery status)	Activated
External device monitoring (EDM)	✓
External device monitoring (delivery status)	Activated

Interfaces

Connection type	Plug-in screw-type terminals
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Permitted cable length	≤ 100 m
Permitted cross-section	0.25 mm ² ... 2.5 mm ²
Configuration method	Hard wired
Diagnostic display	7-segment display
Status display	LEDs

Electronics

Protection class	III (IEC 61140)
Supply voltage V_s	24 V DC (19.2 V DC ... 28.8 V DC)
Residual ripple	≤ 5 V _{pp}
Power consumption	≤ 3.6 W (DC)
Switch-on time	≤ 2.5 s
Output signal switching devices (OSSDs)	
Type of output	2 PNP semiconductors, short-circuit protected, cross-circuit monitored ¹⁾
ON state, switching voltage HIGH	24 V DC (17.5 V DC ... 28.8 V DC)
OFF state, switching voltage LOW	≤ 1.3 V DC
Current-carrying capacity per OSSD	≤ 0.5 A

¹⁾ Applies to the voltage range between -30 V and +30 V.

Mechanics

Mounting	Snap-on mounting on 35 mm mounting rail according to EN 60715
Dimensions (W x H x D)	22.6 mm x 99 mm x 113.5 mm
Weight	160 g

Ambient data

Enclosure rating	IP20 (EN 60529)
Ambient operating temperature	-20 °C ... +55 °C
Storage temperature	-25 °C ... +75 °C
Air humidity	15 % ... 95 %, Non-condensing
Vibration resistance	5 g, 10 Hz ... 55 Hz (EN 60068-2-6)
Shock resistance	10 g, 16 ms (EN 60068-2-29)

Certificates

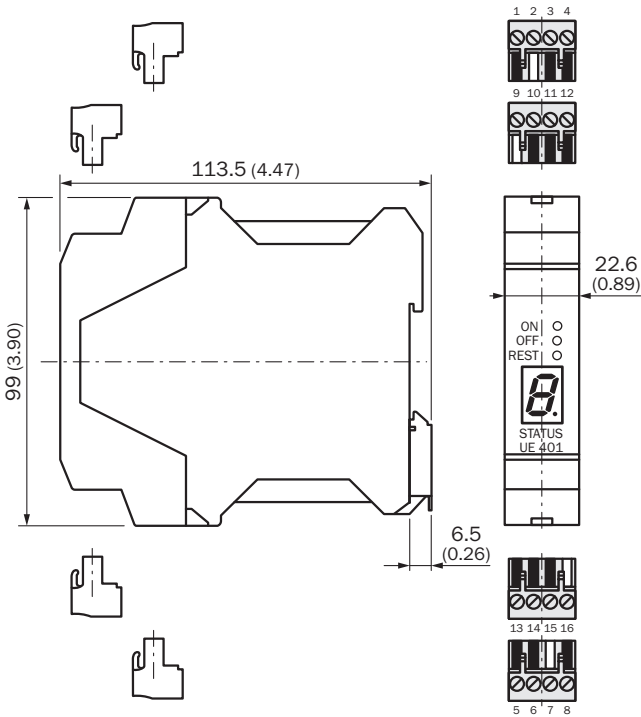
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓
cULus certificate	✓
EC-Type-Examination approval	✓

Classifications

ECLASS 5.0	27272790
ECLASS 5.1.4	27272790

ECLASS 6.0	27272790
ECLASS 6.2	27272790
ECLASS 7.0	27272790
ECLASS 8.0	27272790
ECLASS 8.1	27272790
ECLASS 9.0	27272792
ECLASS 10.0	27272792
ECLASS 11.0	27272792
ECLASS 12.0	27272792
ETIM 5.0	EC011349
ETIM 6.0	EC011349
ETIM 7.0	EC011349
ETIM 8.0	EC011349
UNSPSC 16.0901	41113704

Dimensional drawing UE401



Dimensions in mm (inch)

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