

MOC3ZA-KAZ33D3

The logo for SICK Sensor Intelligence. The word "SICK" is in a large, bold, blue sans-serif font. To its right, the words "Sensor Intelligence" are written in a smaller, blue sans-serif font.



Illustration may differ

SAFE MOTION MONITORING AND CONTROL

MOC3ZA-KAZ33D3

ORDERING INFORMATION

Type	part no.
MOC3ZA-KAZ33D3	6044981

Further device versions and accessories at www.sick.com/Standstill_Monitor



DETAILED TECHNICAL DATA

SAFETY-RELATED PARAMETERS

Safety integrity level	SIL 3 (IEC 61508)
Category	Category 4 (EN ISO 13849)
Performance level	PL e (EN ISO 13849)
PFH ₀ (mean probability of a dangerous failure per hour)	41 x 10 ⁻⁹ (EN ISO 13849)
T _M (mission time)	20 years (EN ISO 13849)
Stop category	1 (EN 60204-1)

FUNCTIONS

Drive safety functions	Standstill
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INTERFACES

Connection type	Screw-type terminals, plug-in screw-type terminals
Conductor cross section	Single wire or fine wire (1x): 0.5 mm ² ... 2.5 mm ² Fine wire with ferrule according to EN 46288 (1x): 0.5 mm ² ... 2.5 mm ²
Encoder interface	Motor voltage measuring

ELECTRICAL DATA - OPERATING DATA

Supply voltage (A1/A2)	24 V (21.6 V ... 28.8 V)
Voltage type	DC
Residual ripple	10 %
Maximum power consumption	≤ 4 W
Supply voltage of semiconductor application diagnostic outputs (A3/A4)	24 V DC (11 V DC ... 30 V DC)
Residual ripple	10 %

ELECTRICAL DATA - MEASUREMENT INPUTS (L1/L2/L3)

Measured/motor voltage	≤ 690 V AC
For UL 508 applications only	≤ 600 V AC
Voltage threshold U_{an}	20 mV ... 400 mV, adjustable
Standstill time t_s	0.2 s ... 6 s, adjustable
Hysteresis (for detection of running motor)	100 %
Response time	≤ 100 ms

ELECTRICAL DATA - SAFETY OUTPUTS: NORMALLY OPEN CONTACT (13/14, 23/24, 33/34); POSITIVELY GUIDED N/C CONTACTS: NORMALLY CLOSED CONTACT (41/42)

Contact configuration (safety contacts)	3 contacts NO, 1 contact NC
Contact type	Relay, positively guided
Nominal switching voltage	250 V AC
Switching capacity in accordance with AC 15	N/O: 3 A/230 V AC (EN 60947-5-1) N/C: 1 A/230 V AC (EN 60947-5-1)
Switching capacity in accordance with DC 13	1 A/24 V DC (EN 60947-5-1)
Maximum switching frequency	≤ 1,200 /h
Contact service life at 230 V / 5 A (AC) $\cos \varphi = 1$	≥ 2×10^5 switching operations
Mechanical life	≥ 50×10^6 switching operations

ELECTRICAL DATA - APPLICATION DIAGNOSTIC OUTPUTS

Semiconductor outputs (ON, ERR)	Electrically isolated supply via A3/A4 $I_{max} = 100$ mA (short-circuit protected) ON for Release, ERR for Error
Signal contacts 53/54 (normally open contact)	3 A/250 V AC G. P.

MECHANICAL DATA

Dimensions (W x H x D)	45 mm x 112 mm x 121 mm
Weight	400 g
Mounting	35 mm mounting rail according to EN 60715

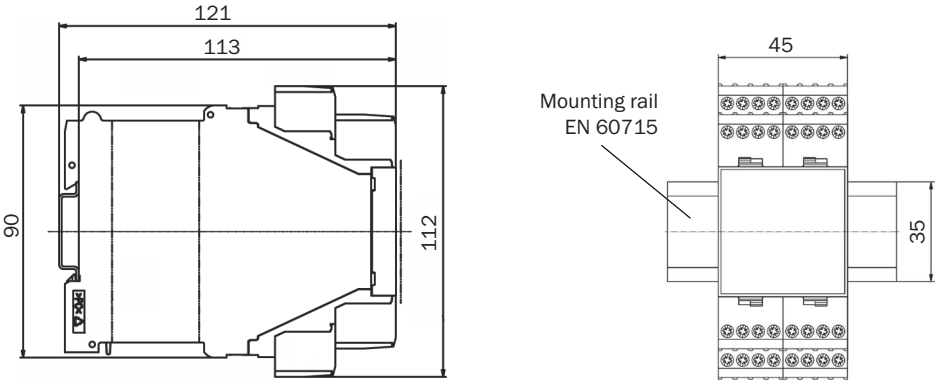
AMBIENT DATA

Enclosure rating	Terminals IP20 (EN 60529) Housing IP40 (EN 60529)
Climate conditions according to	25/060/04 (EN 60068-1)
Vibration resistance	10 Hz ... 55 Hz (EN 60068-2-6)
Shock resistance	Single shock 30 g, 11 ms (EN 60068-2-27)

CERTIFICATES

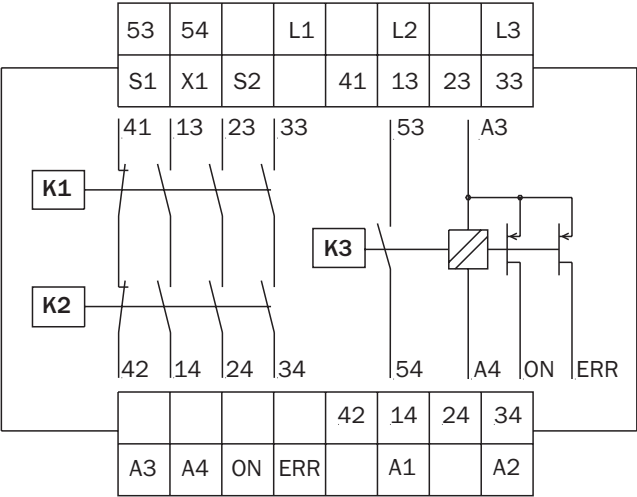
EU declaration of conformity	✓
ACMA declaration of conformity	✓
cULus certificate	✓
EC-Type-Examination approval	✓

DIMENSIONAL DRAWING



Dimensions in mm (inch)

CONNECTION DIAGRAM



Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6044981



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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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