



Transponder safety switches T4000 Standard Evaluation unit

T4000-1RBA01



Model Name > [T4000-1RBA01](#)
Part No. > [6012147](#)



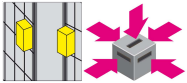
At a glance

- Small sensors with external evaluation unit
- Response range of up to 10 mm
- Sensors with plug connector or connected cable
- Up to performance level PL e / Cat. 4 (EN ISO 13849)

Your benefits

- High level of prevention against tampering due to individually coded actuator
- High level of machine availability due to high tolerances for door misalignment
- High level of machine reliability due to resistance to shocks and vibrations
- Space-saving mounting due to compact housing design
- Just one safety switch in conjunction with a suitable safety module makes it possible to solve applications up to PL e and Cat. 4 (EN ISO 13849)
- The devices are easy to clean, making them suitable for contaminated areas or environments with strict hygiene standards
- Long service life due to durable and low-maintenance design

Note: The technical data SILCL, category, PL, PFHd and TM apply at maximum switch load.



Functions

External device monitoring (EDM):	-
Self-testing:	✓

Technical data

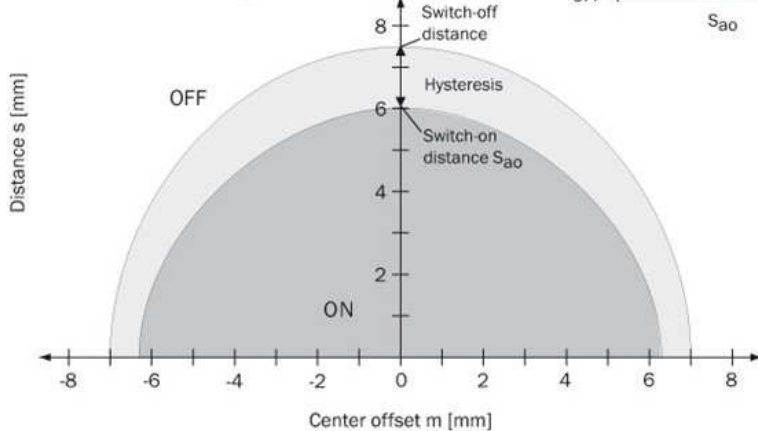
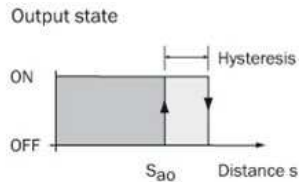
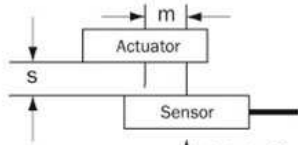
Safety integrity level:	SILCL2 (EN 62061)
Category:	Category 3 (EN ISO 13849)
Performance level:	PL e (EN ISO 13849)
PFHd::	4.3 * 1E-08 (EN ISO 13849) ^{1) 2)} 8.8 * 1E-08 (EN ISO 13849)
TM (mission time)::	20 a (EN ISO 13849) ^{3) 4)} 8 a (EN ISO 13849)
Classification in compliance with IEC/EN 60947-5-3:	PDF-M
Housing material:	Plastic PA6.6
Enclosure rating:	IP 20 (EN 60529)

Protection class:	III
Ambient operating temperature:	0 °C ... +55 °C
Electrical connection:	Plug-in terminals
Type of output:	Relays
Number of safe outputs (N/O):	2
Response time:	180 ms
Supply voltage typical, from, to:	24 V DC, 21 V DC, 27 V DC
Usage category:	AC-12/DC-12, AC-14/DC-13 (EN 60947-5-2)
Rated operating current (voltage):	0.3 A (60 V AC) 50 Hz 6 A (30 V AC) 50 Hz 0.3 A (60 V DC) 6 A 30 V DC (2 A) 30 V AC 50 Hz (3 A) 24 V DC
Mechanical life (relay contacts):	10* 1E 06 switching cycles
Number of non-contact safety switches:	1
Type of connectable sensors:	T4000 DNAC, T4000 DNA05P, T4000 DNA10P, T4000 DNA15P
Status display:	✓
Weight:	0.327 kg
ATEX approval:	-

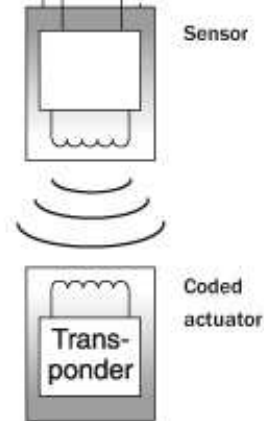
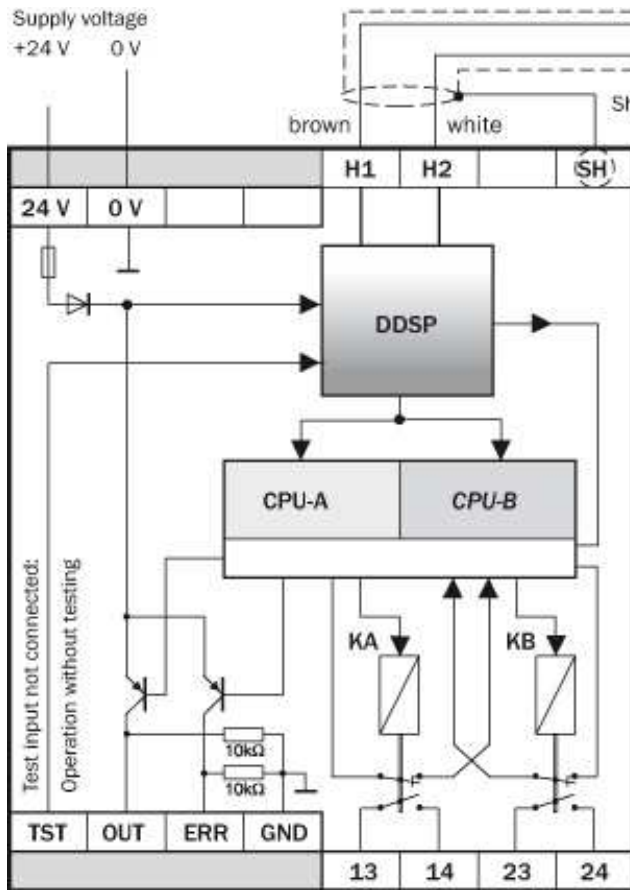
1) 3) With < 34.600 switching cycles p.a. 2) 4) With < 90.000 switching cycles p.a.

Response range

Observe the safe switch-off distance $s_{ar} = 23 \text{ mm}$. Relay outputs are safely deactivated



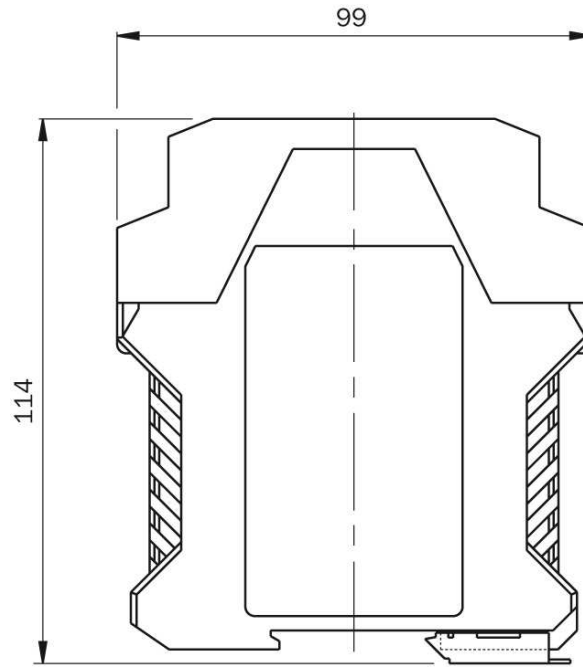
Connection diagram



DDSP:
Double Dynamic Safety-Path
with error monitoring of the actuator,
of the sensor and of the cable
to the sensor

TST	Test input (STATE)
OUT	Enable output
ERR	Diagnostic output (ERROR)
GND	0 V
H1 / H2	Connection, sensor
13 / 14	Connection, N/O contact 1, enable contact safety relay
23 / 24	Connection, N/O contact 2, enable contact safety relay

Dimensional drawing



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