

Electrical data		
Rated operating voltage	U_e	24 V DC, Reverse polarity protection, +25 %, -20 % PELV/SELV power supply unit
Rated insulation voltage	U_i	75 V DC
Rated impulse withstand voltage	U_{imp}	500 V
Rated conditional short circuit current		100 A
No-load current	I_0	≤ 50 mA
Transponder frequency		125 kHz
Risk time	t_a	≤ 50 ms
Time delay	t_v	≤ 2 s
Level of coding		unique
Electromagnetic interference		according to EN IEC 60947-5-3 and EN 61326-3-1
Emergency operation function		activated / 20 min.
Utilization category		DC-13
Outputs Q_1, Q_2		
Voltage level		according to Typ 3 EN 61131-2
Switching element function		PNP NO (OSSD)
Rated operating current	I_e	250 mA at 25 °C
Leakage current	I_r	≤ 1 mA DC
Switching elements		Sustained short-circuit and overload protection
Voltage drop	U_d	≤ 3 V
Type of short circuit protection		Current-limited, digital
Outputs AUXD/AUXL		
Switching element function		AUXL: PNP make-contact element (normally open), off when guardlock is active AUXD: PNP make-contact element (normally open), off when safety guard is closed
Rated operating current	I_e	50 mA at 25 °C
Switching elements		Sustained short-circuit and overload protection
Voltage drop	U_d	≤ 1,5 V
Type of short circuit protection		Current-limited, digital (clocking)
Electromagnet guard locking		
Power consumption		During state change: ≤ 5,25 W for ≤ 35 ms

Mechanical data		
Enclosure		Thermoplastic, glass-fibre reinforced (UL 94-V0)
Cover		Thermoplastic, glass-fibre reinforced (UL 94-V0)
Mounting for separate actuator/ transmission of locking force		Stainless steel / Thermoplastic, glass-fibre reinforced (UL 94-V0)
Actuation		separate actuator
Minimum actuating radius	$R_{\min}$	see actuator data sheet
Approach speed	$v_{\max}$	0,5 m/s
Switching frequency		≤ 10 / min.
Pull-out force		≤ 20 N
Guard locking principle		bistable
Release		a) Electromagnet b) Auxiliary release from front and rear side
Locking force	F_{Zh}	3000 N (EN ISO 14119)
Ambient air temperature		-10 °C ... +60 °C
Storage temperature		-25 °C ... +70 °C
Mechanical life		8 x 10 ⁵ switching cycles
Mounting		Straight screw-on position: 2 x M4 Turned screw-on position: 3 x M4
Connection type		Cable with M12 male connector, 8-pin, A-coded
Weight		≈ 0,350 kg
Mounting position		any
Degree of protection according to EN 60529		IP66 IP67 IP69 (Protect cable connectors from direct water jets.)
Degree of protection according to NEMA		Type 1
Protection class		III
Installation altitude		≤ 4000 m NHN
Vibration		(each axis)
Test standard		IEC 60068-2-6
Frequency range		10 - 55 Hz
Amplitude		1 mm
Shock		(each axis)
Test standard		IEC 60068-2-27
Pulse shape		Half-sine
Peak acceleration		30 g
Pulse duration		11 ms

Safety data Door monitoring		
up to PL	e	EN ISO 13849-1
Category	4	
PFH _D	2,9E-09	DIN EN 62061
SIL CL	3	
SFF	98,02 %	IEC 61508
MTTF _d	684 years	EN ISO 13849-1
DC	95,66 %	

Safety data Guard locking		
up to PL	e	EN ISO 13849-1
Category	3	
PFH _D	7,47E-10	DIN EN 62061
SIL CL	3	
SFF	98,28 %	IEC 61508
MTTF _d	730 years	EN ISO 13849-1
DC	96,07 %	

General safety data	
Service life	20 years
B10d	8 x 10 ⁵ switching cycles

Standards	
	DIN EN ISO 14119
	EN 60947-1, EN 60947-5-2 , EN 61326-3-1
	EN ISO 13849-1, EN 62061, EN 60947-5-3, EN ISO 13849-2
	EN 60204-1, ETSI EN 301489-1, ETSI EN 300330-1

EU Conformity	
until 2027-01-19	according to directive 2006/42/EG (Safety-of-Machinery-Directive)
from 2027-01-20	acc. to regulation (EU) 2023/1230 (Machinery Regulation)
	according to directive 2011/65/EU; 2015/863 (RoHS III)
	according to directive 2014/53/EU (RED)
	according to directive 2012/19/EU (EU-WEEE II); WEEE-Reg. No. DE 50560927

Approvals	
	TÜV Süd, cUL _{US} (class 2 Power source)
	FCC ID: 2ABA6BD1
	IC: 11535A-BD1

Notes	