Product Overview

Safety Engineering electro-mechanical





Safety Engineering at a Glance





Enabling switches



Enabling switches 7SA/7SB



Enabling switches

		ZSĔ/ZXE	ZSĀ/ZSB	ZSM
	Approvals			
	Features/specific advantages	three-stage built-in version single or dual-channel	three-stage single or dual-channel tit available	three-stage dual or three-channel modular design, vibration signal kit available
	AS-Interface Safety at Work	-	•	-
ents	Total switching contacts	see product catalog	see product catalog	see product catalog
Switching elements	Conventional thermal current	4A	4 A	-
hing	Switching current, min. (at 24V)	1 mA (ZSE)/5 mA (ZXE)	1 mA	-
Switc	Mechanical life, max.	1 x 10 ⁵ (ZSE)/1 x 10 ⁵ (ZXE)	1 x 10 ⁵	1 x 10 ⁶
	Housing material	Plastic	Plastic	Plastic
	Housing dimensions, min. (HxWxD)	see product catalog	see product catalog	see product catalog
ent	Ambient temperature	-5 to +60°C	-5 to +50°C	-5 to +60°C
Environment	Degree of protection, max. acc. to IEC 60529	IP65 (integrated)	IP65/IP67	IP54
Envi	LED display	-	•	•
	Approach/actuating directions	-	-	-
	Approach speed, max.	-	-	-
king	Solenoid operating voltage	-	-	_
Guard locking	Power consumption	-	_	_
Guar	Locking force, max.	-	-	_
tion	Cable entry	-	Ø 4 − 8 mm	Ø 5 − 10 mm
Connection	Connection cable (pre-assembled)	-	•	•
Ö	Plug connector	-	•	•
ories	Holder	-	•	•
Accessories	Connection box/etc.	-	0	•
Acce	Kit	-	•	•

	Safety Engineering at a Glance		Safety switches NZ.VZ	
	Approvals		c Uus EN	chus GI WE FAI
	Features/specific advantages	according to EN 50041according to DIN 43693	robust versiontwo positively driven contacts	basic housing according to EN50041
	AS-Interface Safety at Work	•	-	•
S	Total switching contacts		2	4
ment	Conventional thermal current	4A – 6A	3A	4A
Switching elements	Switching current, min. (at 24V)	Position switches switches NZ NIA Safety ESH-ARC NIA • robust version of the sum of the	1 mA	1 mA
Swit	Mechanical life, max.		1 x 10 ⁶	2×10 ⁶
	Housing material		die-cast zinc	die-cast alloy, anodized
	Housing dimensions, min. (HxWxD)		123x40x42mm	115x40x42mm
ä	Ambient temperature	-25 to +80°C*	-25 to +70°C	-25 to +80°C
Environment	Degree of protection, max. acc. to IEC 60529	IP67	IP67	IP67
ш	LED display		Window	•
	Approach/actuating directions	depending on actuator	-	***
	Approach speed, max.	50 m/min. – 300 m/min.	-	20 m/min.
20	Solenoid operating voltage	-	-	-
lock	Power consumption	-	-	-
Guard locking	Locking force, max.	-	-	_
tion	Cable entry	M 20 x 1.5 ¹⁾	-	M 20 x 1.5 ¹⁾
Connection	Connection cable (pre-assembled)		-	0
ဝိ	Plug connector	•	M12	•
	Actuator straight/straight rubber-cushioned	-	_	●/-
, .	Hinged actuator	Roller lever arm, chisel,	-	•
Accessories	Min. door radius (hinged actuator)	long roller plunger	-	165 mm
Acc	Min. door radius (standard actuator)		-	1000 mm
	Bolts for safety guards		-	•
	• pot queilable in all varaions (acc catalan)			

	Metal Housing	√ Switches with Separate Ac	tuator		
Without guard locking	Salety	With guard locking		ard locking and guard lock mo	nitoring
Safety switches	Safety switches	Safety switches	Safety switches	Safety switches	Safety switches
NX	SGA	NZ.VZ.VS	TZ	TX	STA
	c Wus EN	cODus GL COEHI		CO CENT	e Un us EAL
physically compatible with TX	physically compatible with GP und SGP	basic housing according to EN 50041	two switching systems in one housing	slim design auxiliary key, emergency or escape release	 physically compatible with TP and STP also as Twin and BiState version
•	-	-	•	•	•
4	4	4	8	4	4
4 A	4 A	4A	4 A	4 A	4 A
1 mA	1 mA	1 mA	1 mA	1 mA	1 mA
2×10 ⁶	2x10 ⁶	2x10 ⁶	1 x 10 ⁶	1×10 ⁶	1 x 10 ⁶
die-cast alloy, anodized	die-cast alloy	die-cast alloy, anodized	die-cast alloy, anodized	die-cast alloy, cathodically dipped	die-cast alloy
115x40x42mm	123 x 40 x 42 mm	115x40x42mm	110x110x40mm	240x42x59mm	190x40x46.5mm
-25 to +80°C	-20 to +80°C	-25 to +80°C	-25 to +80°C	-20 to +80°C	-20 to +80°C
IP67	IP67	IP67	IP67	IP67	IP67
•	-	•	•	•	•
><	**	**	>><	**	*
20 m/min.	20 m/min.	20 m/min.	20 m/min.	20 m/min.	20 m/min.
_	-	24 / 115 / 230V	24 / 115 / 230 V	24 / 115 / 230 V	24 / 110 / 230 V
-	-	10W	7 W	8W	8W
-	-	2000 N	2000 N	1700 N	3000 N
M20x1.5 ¹⁾	3xM20x1.5	M20x1.5 ¹⁾	M20x1.5 ¹⁾	3xM20x1.5 ¹⁾	3xM20x1.5
0		0	0	O	O
•	•	•	•	•	0
•	a / a			/-	- /-
•/-	•/•	•/-	•/-	-/•	•/•
165 mm	200 mm	165 mm	165 mm	100 mm	200 mm
1000 mm	300 mm	1000 mm	1000 mm	300 mm	300 mm

Safety	Safaty Switches				
Engineering	Safety Switches with Safety Function			Med 1	
				Without guard locking	
at a Glance					
	i i	idencial		A MENOCIAL	o constitution of the cons
	Safety switches NM	Safety switches NM.VZ	Safety switches NQ	Safety switches NP	Safety switches GP
Approvals	M 3 (20) (20) (20) (20) (20) (20) (20) (20)	 (()	e (U) us (E) EHI		M3 De Constant
Features/specific advantages	small design various lever/plunger forms and hinged actuators	small designsmall approach radii	• compact housing	 basic housing according to EN 50047 ideal for profile assembly 	identical fixing dimensions to safety switches TP
AS-Interface Safety at Work	-	-	-	_	•
				_	
Total switching contacts Conventional thermal current	3 4A	3 4A	3 2,5A	3 4A	4 4A
Switching current, min. (at 24V)	1 mA	1 mA	1 mA	30 mA	1 mA
Mechanical life, max.	30 x 10 ⁶	1×10 ⁶	1×10 ⁶	1×10 ⁶	2x10 ⁶
Housing material	reinforced thermoplastic	reinforced thermoplastic	reinforced thermoplastic	reinforced thermoplastic	reinforced thermoplastic
Housing dimensions, min. (HxWxD)	77,5 x 25 x 32 mm	82x25x32mm	78x30x15mm	98x35x36mm	125 x 40 x 42 mm
Ambient temperature	-20 to +80°C	-20 to +80°C	-25 to +70°C	-25 to +80°C	-20 to +80°C
Degree of protection, max. acc. to IEC 60529	IP67	IP67	IP67	IP67	IP67
LED display	-	_	_	_	_
Approach/actuating directions	**	**	4	**	**
Approach speed, max.	60 m/min.	20 m/min.	60 m/min.	20 m/min.	20 m/min.
Solenoid operating voltage	_	_	_	_	_
Power consumption	-	-	-	-	-
Locking force, max.	-	-	-	-	-
Cable entry	3xM16x1.5	3xM16x1.5	_	M20x1.5	3xM20x1.5
Connection cable (pre-assembled)	0	0	•	0	0
Plug connector	•	•	-	•	•
Actuator straight/straight rubber-cushioned		•/•	-/•	•/•	•/•
Hinged actuator		_	-/ - /	•	•
Min. door radius (hinged actuator)	various actuation elements	-	50 mm	90 mm	90 mm
Min. door radius (standard actuator)		150 mm	160 mm	1000 mm	1000 mm

Switching elements

Environment

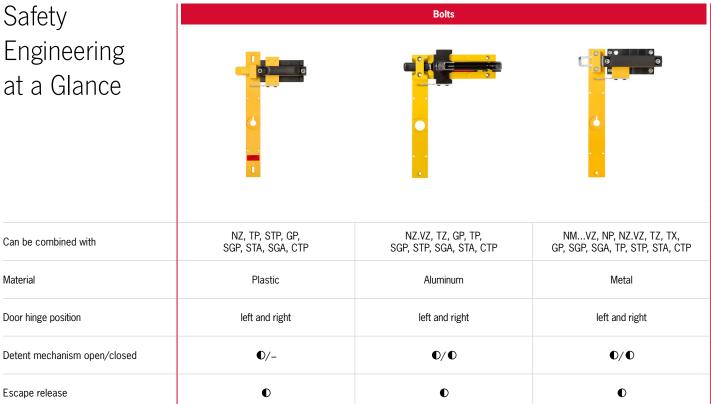
Zuhaltung

Connection

Accessories

Bolts for safety guards

Plastic Housing	g				
afety Switches with Separa	ite Actuator				
	With guard locking	With g	uard locking and guard lock mo	nitoring	
		o matemora	iii annua ii ii annua ii ii annua ii an		
Safety switches SGP	Safety switches TQ	Safety switches STM	Safety switches TP / STP	Safety switches CTP	Safety switches TK
c Wus w (FAI	c ULus EMI	LE SUN	c Us EHI	us UQS EHC	IH] (10) su (10):
Actuating head made of metal, also as Twin version	• compact housing	actuating head made of plastic or metal	 TP: auxiliary, key auxiliary, emergency or escape release ideal for profile assembly also as Twin and BiState version 	 integrated transponder Cat. 4 / PL e compatible mounting also as Extended- and BiState version 	very high locking force no protection against unintentional closing
•	-	-	•	•	-
Л	<u> </u>	3	А		2
4 4 A	5 2,5 A	4A	4 4 A		2 4A
47	2,57	+1	47	see product catalog	47
1 mA	1 mA	1 mA	1 mA		1 mA
2×10 ⁶	1 x 10 ⁶	2x10 ⁶	1 x 10 ⁶	1 x 10 ⁶	1×10 ⁶
reinforced thermoplastic	reinforced thermoplastic	reinforced thermoplastic	reinforced thermoplastic	reinforced thermoplastic	reinforced thermoplastic
123x40x42mm	75x75x15mm	96 x 79 x 38 mm	192x40x42mm	204 x 40 x 42 mm	192x40x42mm
-20 to +80°C	-25 to +50°C	-20 to +55 °C	-20 to +55 °C	-20 to +55°C	-20 to +55°C
IP67	IP65	IP67	IP67	IP67 / IP69 / IP69K	IP67
-	-	0	•	•	•
**	\$	with the same of t	*	**	>4
20 m/min.	60 m/min.	20 m/min.	20 m/min.	20 m/min.	20 m/min.
-	24V	24V/230V	24/110/230V	24 V	24/48/230 V
-	2,7W	6 W	8W	6W	8W
-	500 N	plastic 1000 N metal 2000 N	TP 1300 N STP 2500 N	3900 N	5000 N
3xM20x1.5	_	M20x1.5	3xM20x1.5	-	3xM20x1.5
0	•	0	0	_	0
•	_	0	•	1x M12/2x M12/1x M23	•
A / A	/_	/_	A / A	/=	
•/•	-/•	-/•	•/•	-/ •	-
•		•	TD 00	•	_
200 mm	50 mm	200 mm	TP 90 mm STP 200 mm	200 mm	-
300 mm	160 mm	300 mm	TP 1000 mm STP 300 mm	300 mm	-
•	_	-		•	-



Safety Engineering at a Glance

Emergency stop

Emergency Stop





Rope pull switches RPS-M



Rope Pull Switches

Rope pull switches

			RPS-M	RPS
Approvals	c (M) us (E) EAC	c Wus EAC	EHC	CO EHI
Features/specific advantages	Built-in devices	With housing	Fast-action clamping and tensioning device with visualization integrated emergency stop function	 Fast-action clamping and tensioning device with visualization integrated emergency stop function
AS-Interface Safety at Work	-	•	_	-
Total switching contacts	4	3	4	4
Total switching contacts Conventional thermal current Switching current, min. (at 24V) Mechanical life, min.	1 A	1 A	10A	10A
Switching current, min. (at 24V)	10 mA	10 mA	10 mA	10 mA
Mechanical life, min.	250.000	250.000	100.000	100.000
Housing material	reinforced thermoplastic/ policarbonate	reinforced thermoplastic/ policarbonate	die-cast alloy	reinforced thermoplastic/ policarbonate
Housing dimensions, min. (HxWxD)	65.6 x 30 x 29 mm	91.5x76x76mm	282x90x88mm	256x42x88mm
_ Ambient temperature	-25 to +60°C	-25 to +55°C	-30 to +80°C	-25 to +70°C
Degree of protection max. acc. to	IP20/IP65	IP65	IP67	IP67
LED display	•	•	-	-
Approach/actuating directions	<u>‡</u>	\$	1	1
Approach speed, max.	-	-	-	-
Cable entry	-	2 x Ø 21.3 mm	3xM20x1.5 ¹⁾	3xM20x1.5 ¹⁾
Connection cable (pre-assembled) Plug connector			_	-
Plug connector	-	•	•	•
Screw terminal	•	•	_	_

1) further versions upon request



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