924CE SERIES

MICRO SWITCH Miniature Safety Switches



DESCRIPTION

Honeywell's 924CE Series of miniature electromechanical safety switches are designed with a rugged metal housing. This Series features positive opening normally closed contacts to EN/IEC 60947-5-1-3 specifications. Due to their small size and positive opening normally closed contact; the 924CE Series provides a safety solution for applications where the size of other products could be prohibitive on the machinery.

The 924CE Series offers a variety of configurations which include a wide range of actuators, circuits, and electrical terminations to solve many application issues. These miniature switches are environmentally sealed to IP66 for demanding environments on indoor or outdoor machinery. In addition, the 924CE Series has been evaluated for safety functions up to a safety integrity level (SIL) of SIL3 when evaluated to the requirements of IEC 61508-2:2010.

FEATURES

- Compact metal housing epoxy encapsulated with the common 25,4 mm [1.0 in] center-to-center mounting
- Positive opening operation of normally closed contacts to EN/IEC 60947-5-1-3 specification
- Designed and agency evaluated for safety functions up to a SIL3 level
- Three different slow-action circuit options: 1NC/1NO BBM (breakbefore-make), 1NC/1NO MBB (makebefore-break), and 1NC
- Wide range of actuator heads and levers
- Can be gang mounted for multiplepole capability
- Certified for global applications; cULus, CE, UKCA
- Environmentally sealed to IP66
- Standard temperature operating range of 0 °C to 70 °C [32 °F to 158 °F]
- Optional low temp. operating range of -40 °C to 70 °C [-40 °F to 158 °F]

POTENTIAL APPLICATIONS

Industrial

- Machine tools (small doors and apertures)
- Material handling
- Packaging machinery
- Trailer/truck restraint systems (dokloks)

Transportation

• Small construction machinery

VALUE TO CUSTOMERS

- Miniature rugged 924CE switches with common 25,4 mm [1.0 in] mounting footprint
- Switches easily gang mounted for multi-pole capability
- Low temp. option of -40 °C [-40 °F]
- Long life of up to 10 million mechanical operations
- Several electrical connection options: pre-cabled with different lengths; ac or dc Micro connectors with 4-pin or 5-pin options

DIFFERENTIATION

- Miniature metal body size of 40 mm L x 16 mm W x 49 mm H requires less space on machinery
- Positive opening normally closed
 contacts
 with an optional normally open contact
- Designed and evaluated for safety functions up to a SIL3 level

PORTFOLIO
MICRO SWITCH 924CE Series miniature safety switches complement the 24CE Series of miniature safety limit switches. These Series of switches are a small segment of the total family of the Honeywell MICRO SWITCH electromechanical safety switches.



Characteristic Parameter Description miniature safety electromechanical switch Certifications CE, UKCA, cULus, SIRA, IEC/EN60947-5-1 Housing material epoxy-coated die-cast zinc pin plunger (924CE1-) roller plunger parallel (924CE2-) roller plunger perpendicular (924CE3-) rotary (924CE16-) Professional (924CE3-) Actuators pin plunger with boot seal (924CE18-) adjustable plunger parallel, panel mount (924CE28-) roller plunger perpendicular, panel mount (924CE29-) roller plunger perpendicular, panel mount (924CE29-) roller plunger perpendicular with boot seal (924CE31-) roller plunger perpendicular with boot seal (924CE53-) Termination (electrical connection) 3 core or 5 core SJTO cable, Integral dc Micro connector (4-pin or 5-pin), Integral ac Micro connector (5-pin) Contact options 1NC/1NO BBM (break-before-make), 1NC/1NO MBB (make-before-break), 1NC (all normally closed contacts are positive opening) Contact type Slow action Contact material silver alloy Utilization category AC15, B300: DC13, R300 Rated operational voltage (Ue) 240 V ac or dc Rated operational current (th) 1.5 A, 0.1 A Rated impulse withstand voltage (Ui) 250 V Rated impulse withstand voltage (Ui) 250 V <td< th=""><th>TABLE 1. SPECIFICATIONS</th><th></th></td<>	TABLE 1. SPECIFICATIONS	
Certifications CE, UKCA, cULus, SIRA, IEC/EN60947-5-1 Housing material epoxy-coated die-cast zinc pin plunger (924CEL-1) roller plunger parallel (924CE2-) roller plunger parallel (924CE3-) roller plunger perpendicular (924CE3-) roller plunger perpendicular (924CE3-) roller plunger parallel (924CE18-) adjustable plunger (924CE18-) adjustable plunger (924CE19-) roller plunger parallel, panel mount (924CE29-) roller plunger perpendicular, panel mount (924CE29-) roller plunger perpendicular with boot seal (924CE51-) oroller plunger perpendicular with boot seal (924CE51-) roller plunger perpendicular with boot seal (924CE51-) roller plunger perpendicular with boot seal (924CE31-) roller plunger perpendicular panel mount (924CE28-) roller plunger perendicular panel mount (924CE28-) roller plunger perpendicular pan	Characteristic	Parameter
Housing material epoxy-coated die-cast zinc pin plunger (924CE1-) roller plunger parallel (924CE2-) roller plunger parallel (924CE3-) rotary (924CE16-) pin plunger perpendicutar (924CE18-) adjustable plunger (924CE18-) adjustable plunger (924CE19-) roller plunger parallel, panel mount (924CE28-) roller plunger parallel, panel mount (924CE29-) roller plunger parallel, panel mount (924CE3-) roller plunger parallel, panel mount (924CE3-) roller plunger perpendicutar, panel mount (924CE3-) roller plunger parallel, panel mount (924CE3-) roller plunger perpendicutar, both seat (924CE3-) roller plunger parallel with boot seat (924CE3-) roller plunger perpendicutar with boot seat (924CE3-) roller plunger parallel with	Description	miniature safety electromechanical switch
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Integral ac Micro connector (5-pin) Contact options	Actuators	roller plunger parallel (924CE2-) roller plunger perpendicular (924CE3-) rotary (924CE16-) pin plunger with boot seal (924CE18-) adjustable plunger (924CE19-) roller plunger parallel, panel mount (924CE28-) roller plunger perpendicular, panel mount (924CE29-) roller plunger parallel with boot seal (924CE31-)
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Rated thermal current (Ith) 10 A Rated insulation voltage (Ui) 250 V Rated impulse withstand voltage (Uimp) 2500 V Maximum fuse rating 10 A Environmental sealing IP66 Operating temperature Standard: 0 °C to 70 °C [32 °F to 158 °F] Optional: -40 °C to 70 °C [-40 °F to 158 °F] MCTF (Mechanical life) >1,000,000 cycles MCTF (Electrical life) >25,000 cycles SIL Capability Up to SIL3 (HFT1), IEC61508-2:2010	Rated operational voltage (Ue)	240 V ac or dc
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MCTF (Electrical life) >25,000 cycles SIL Capability Up to SIL3 (HFT1), IEC61508-2:2010	Operating temperature	
SIL Capability Up to SIL3 (HFT1), IEC61508-2:2010	MCTF (Mechanical life)	>1,000,000 cycles
	MCTF (Electrical life)	>25,000 cycles
Proof test interval 1 year	SIL Capability	Up to SIL3 (HFT1), IEC61508-2:2010
	Proof test interval	1 year

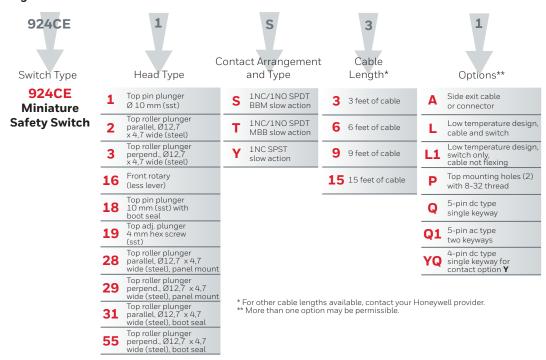
TABLE 2. ELECTRICAL RATINGS EN/IEC 60947-5-1							
ac dc							
B300	AC15		R300 DC13				
UE	IE	VA Rating		UE	IE	VA Rating	
(Volts)	(Amps)	Make	Break	(Volts)	(Amps)	Make	Break
120	3	3600	360	125	0.22	28	28
240	1.5	3600	360	250	0.1	28	28

cULus (E41859), CE, UKCA

Cable: 10 A, 250 Vac; 1/3 hp, 125/250 Vac

Connector: 4 A, 250 Va

Figure 1. Product Nomenclature



GANG-MOUNT CAPABILITY

The 924CE Series housing has been designed to enable the user to build their own multiple plunger switch by gang mounting several switches. All pin plunger and roller plunger types are suitable for gang mounting. There is a 16 mm distance between the plungers. The Series is very versatile such that even a lever-type version could be added at the end of the row.

BOTTOM-EXIT OR SIDE-EXIT ORIENTATION

The 924CE Series has been designed with a pre-wired cable fitted in the bottom of the switch housing. Other variations are available with a side-exit cable.

CONNECTOR VERSIONS

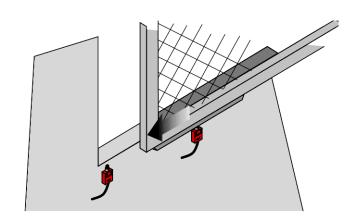
The 924CE Series is available with a Micro connector in a bottom-exit or side-exit version.

MOUNTING

MICRO SWITCH 924CE Series safety switches are mounted by using two M5 or #10 screws. The mounting holes are counter bored to keep the screw heads within the overall switch housing dimensions.

APPLICATION ILLUSTRATION

Two 924CE roller plunger switches to monitor gate position, closed or open.



CONTACT ARRANGEMENT AND DESCRIPTION					
Circui	t Type	Circuit Diagram	Cable/Connector		
S	ВВМ	Black———Red Green	5 x 18 AWG SJTO (UL approved)		
Т	МВВ	White—o o—White	5 x 18 AWG SJTO (UL approved)		
Y	SPNC	Black———Red Green	3 x 18 AWG SJTO (UL/CSA approved)		
M12 t	ctor, 4-pin, chread n -YQ)	Pin 3 — Pin 4 =	(NC) (NC) Not used 2 =		
0.5 in x 20	ctor, 5-pin, UNF thread n -Q1)	Pin 1 — Pin 2 — Pin 3 — O — Pin 4	3 (NO) 2 (NC) 4 (NO)		
M12 t	ctor, 5-pin, chread on -Q)	Pin 1 — Pin 2 — Pin 3 — O — Pin 4	2 (NC) 1 (NC) 3 (NO) 4 (NO)		

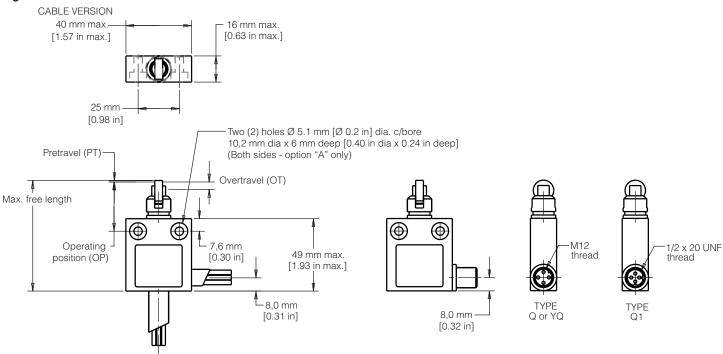
PRODUCT SPECIFICATIONS AND LISTINGS							
Contact your F	Honeywell rep or dis	stributor for additiona	l listings				
	Head Type	Catalog Listing**	Contact Arrangement [slow action]	Operating Force or Torque (max.)	Bar Chart Contact Closed Contact Open mm or °	Options	Termination/ Connection
		924CE1-S3			17.1	_	3 ft cable
		924CE1-S6	1NC/1NO BBM	22,5 N [5.06 lb]	O.P -1	-	6 ft cable
		924CE1-S9			12,9	_	9 ft cable
		924CE1-T3	1NC/1NO	22,5 N	↓	_	3 ft cable
Honeywell	Top pin	924CE1-T9	MBB	[5.06 lb]	17,1	-	9 ft cable
是一个是 是一个是 是一个是 是一个是 是一个是	plunger, Ø 10 mm [sst]	924CE1-T3A	1NC/1NO MBB	22,5 N [5.06 lb]	O.P -2 — 13,1 O.P -1 — 12,4 11,5*	Side exit	3 ft cable
		924CE1-T6A				cable	6 ft cable
		924CE1-Y3	1NC	22,5 N [5.06 lb]	17,1	_	3 ft cable
		924CE1-Y9			O.P 14,9	-	9 ft cable
		924CE2-S3		22,5 N [5.06 lb]	29,9 O.P -127,7	_	3 ft cable
		924CE2-S6	1NC/1NO BBM			-	6 ft cable
		924CE2-S9	BBIVI	[0.00 tb]		-	9 ft cable
<u>A</u>		924CE2-S9A	1NC/1NO BBM	22,5 N [5.06 lb]	O.P -225,7*	Side exit cable	9 ft cable
	Top roller	924CE2-T3				-	3 ft cable
Honeywell	plunger, parallel Ø12,7	924CE2-T6	1NC/1NO	22,5 N	29,9	-	6 ft cable
APPLY	x 4,7 mm wide [steel]	924CE2-T9	MBB	[5.06 lb]	O.P - 2 — 25,9 O.P -1 — 25,2 24,3*	-	9 ft cable
		924CE2-Y3	1NC	22,5 N	29,9	-	3 ft cable
		924CE2-Y9	1NC	[5.06 lb]	O.P 25.9* ——27,7	_	9 ft cable

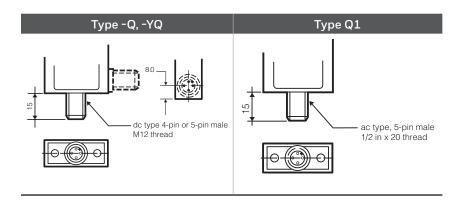
PRODUC	PRODUCT SPECIFICATIONS AND LISTINGS							
Contact your H	Honeywell rep or dis	tributor for additiona	l listings					
	Head Type	Catalog Listing**	Contact Arrangement [slow action]	Operating Force or Torque (max.)	Bar Chart Contact Closed Contact Open mm or °	Options	Termination/ Connection	
		924CE3-S3			•	_	3 ft cable	
		924CE3-S6	1NC/1NO	22,5 N	29,9	-	6 ft cable	
		924CE3-S9	BBM	[5.06 lb]	O.P -127,7 O.P -225,7	-	9 ft cable	
Hermoneum W Section 1 W Section 1 W Section 1	Top roller plunger, perpindicular Ø12,7 x 4,7 mm wide	924CE3-T9	1NC/1NO MBB	22,5 N [5.06 lb]	29,9 O.P - 2 — 25,9 O.P -1 — 25,2 24,3*	_	9 ft cable	
	[steel]	924CE3-Y3	1.1.0	22,5 N		-	3 ft cable	
		924CE3-Y6	1NC	[5.06 lb]	•	_	6 ft cable	
-		924CE3-Y9A	1NC	22,5 N [5.06 lb]	29,9 O.P 27,7	Side exit cable	9 ft cable	
		924CE3-Y9P	1NC	22,5 N [5.06 lb]	25.9*	Top mounting holes (2) 8-32 thread	9 ft cable	
		924CE16-S3	1NC/1NO	1 / hh in-	0,30 Nm	0°	-	3 ft cable
	Front rotary [less lever] (see page 10 for lever selection)	924CE16-S9	BBM		O.P -1 ——26° O.P -2 ——51°50° *	_	9 ft cable	
Innument Control of the Control of t		924CE16-T3	1NC/1NO MBB	0,30 Nm [2.66 in- lb]	O.P -2 48° O.P -1 55°	-	3 ft cable	
1		924CE16-Y3		0,30 Nm	0°	-	3 ft cable	
		924CE16-Y9	1NC	[2.66 in- lb]	O.P 30°	-	9 ft cable	
Honeywell for the third and if the third and	Top pin plunger, Ø 7,1	924CE18-S6	1NC/1NO BBM	22,5 N [5.06 lb]	23,9 O.P -1 ——21,7 O.P -2 ——19,7 19,9*	-	6 ft cable	
	mm [sst] with boot seal	924CE18-Y3AL	1NC	22,5 N [5.06 lb]	23,9 O.P 19,9*	Side exit cable, low temp. switch & cable construction	3 ft cable	

	PRODUCT SPECIFICATIONS AND LISTINGS Contact your Honeywell rep or distributor for additional listings							
	Head Type	Catalog Listing**	Contact Arrangement [slow action]	Operating Force or Torque (max.)	Bar Chart ■ Contact Closed ■ Contact Open mm or °	Options	Termination/ Connection	
Huneverill Street Confession of the Confession o	Top roller plunger, parallel Ø12,7 x 4,7 mm wide [steel], panel mount	924CE28-S3	1NC/1NO BBM	22,5 N [5.06 lb]	43,9 O.P -1 O.P -2 -39,7 39,9	_	3 ft cable	
plunger parallel x 4,7 m [steel],	Top roller plunger, parallel Ø12,7	924CE31-S6	1NC/1NO BBM	25,5 N [5.73 lb]	35,7 O.P -1 O.P -2 33,5 O.P -2 31,5	-	6 ft cable	
	x 4,7 mm wide [steel], with boot seal	924CE31-Y3L1	1NC	25,5 N [5.73 lb]	35,7 O.P 31,7*	Low temp. switch construction	3 ft cable	
20	Top roller	924CE55-SQ1	1NC/1NO BBM	25,5 N [5.73 lb]	35,7	Two keyways [5 pin]	Micro connector, ac type	
	plunger, perpendicular Ø12,7 x 4,7	924CE55-SAQ1	1NC/1NO BBM	25,5 N [5.73 lb]	O.P -1 33,5 O.P -2 31,5 31,7*	Side exit, two keyways [5 pin]	Micro connector, ac type	
	mm wide [steel], with boot seal	924CE55-Y3A	1NC	25,5 N [5.73 lb]	35,7 O.P 31,7*	Side exit cable	3 ft cable	

DIMENSIONAL DRAWINGS

Figure 2. 924CE General Dimensions

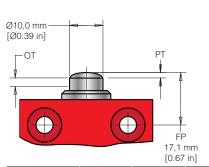




MICRO SWITCH MINIATURE SAFETY SWITCHES

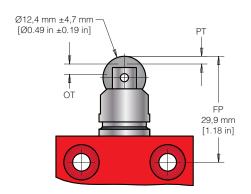
924CE SERIES

Figure 3. 924CE1 Dimensions



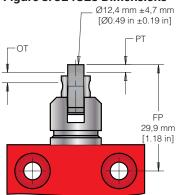
Pin Plunger Operating Characteristics	S 1NC/1NO (BBM)	T 1NC/1NO (MBB)	Y 1NC
Free position (±0,4 [0.02])	17,1 [0.67]	17,1 [0.67]	17,1 [0.67]
Pretravel (max.)	2,2 [0.09]	4,0 [0.16]	2,2 [0.09]
Overtravel (min.)	1,0 [0.04]	0,5 [0.02]	-

Figure 4. 924CE2 Dimensions



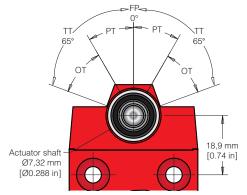
Roller Plunger Operating Characteristics	S 1NC/1NO (BBM)	T 1NC/1NO (MBB)	Y 1NC
Free position (±0,4 [0.02])	29,9 [1.18]	29,9 [1.18]	29,9 [1.18]
Pretravel (max.)	2,2 [0.09]	4,0 [0.16]	2,2 [0.09]
Overtravel (min.)	1,0 [0.04]	0,5 [0.02]	-

Figure 5. 924CE3 Dimensions



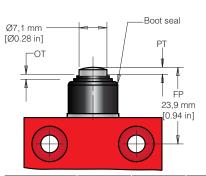
Roller Plunger Operating Characteristics	S 1NC/1NO (BBM)	T 1NC/1NO (MBB)	Y 1NC
Free position (±0,4 [0.02])	29,9 [1.18]	29,9 [1.18]	29,9 [1.18]
Pretravel (max.)	2,2 [0.09]	4,0 [0.16]	2,2 [0.09]
Overtravel (min.)	1,0 [0.04]	0,5 [0.02]	-

Figure 6. 924CE16 Dimensions



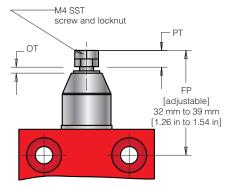
Side Rotary Operating Characteristics	S 1NC/1NO (BBM)	T 1NC/1NO (MBB)	Y 1NC
Free position (degrees)	0	0	0
Pretravel (max. degrees)	26	48	26
Total travel (min. degrees)	65	65	65

Figure 7. 924CE18 Dimensions



Pin Plunger with Boot Seal Operating Characteristics	S 1NC/1NO (BBM)	T 1NC/1NO (MBB)	Y 1NC
Free position (±0,4 [0.02])	23,9 [0.94]	23,9 [0.94]	23,9 [0.94]
Pretravel (max.)	2,2 [0.09]	4,0 [0.16]	2,2 [0.09]
Overtravel (min.)	1,0 [0.04]	0,5 [0.02]	-

Figure 8. 924CE19 Dimensions

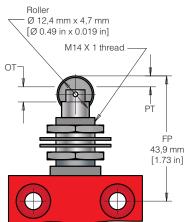


Top Adjust- able Plunger Operating Characteristics	S 1NC/1NO (BBM)	T 1NC/1NO (MBB)	Y 1NC
Free position (adjustable)	32 to 39 [1.26 to 1.54]	32 to 39 [1.26 to 1.54]	32 to 39 [1.26 to 1.54]
Pretravel (max.)	2,2 [0.09]	4,0 [0.16]	2,2 [0.09]
Overtravel (min.)	1,0 [0.04]	0,5 [0.02]	-

MICRO SWITCH MINIATURE SAFETY SWITCHES

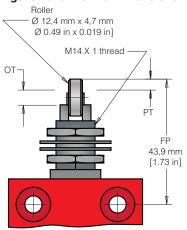
924CE SERIES

Figure 9. 924CE28 Dimensions



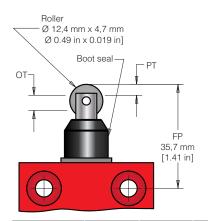
Top Roller Plunger with Panel Mount Operating Characteristics	S 1NC/1NO (BBM)	T 1NC/1NO (MBB)	Y 1NC
Free position (±0,4 [0.02])	43,9 [1.73]	43,9 [1.73]	43,9 [1.73]
Pretravel (max.)	2,2 [0.09]	4,0 [0.16]	2,2 [0.09]
Overtravel (min.)	1,0 [0.04]	0,5 [0.02]	-

Figure 10. 924CE29 Dimensions



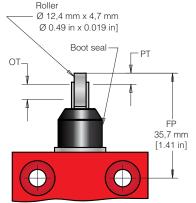
Top Roller Plunger with Panel Mount Operating Characteristics	S 1NC/1NO (BBM)	T 1NC/1NO (MBB)	Y 1NC
Free position (±0,4 [0.02])	43,9 [1.73]	43,9 [1.73]	43,9 [1.73]
Pretravel (max.)	2,2 [0.09]	4,0 [0.16]	2,2 [0.09]
Overtravel (min.)	1,0 [0.04]	0,5 [0.02]	-

Figure 11. 924CE31 Dimensions



Roller Plunger with Boot Seal Operating Characteristics	S 1NC/1NO (BBM)	T 1NC/1NO (MBB)	Y 1NC
Free position (±0,4 [0.02])	35,7 [1.41]	35,7 [1.41]	35,7 [1.41]
Pretravel (max.)	2,2 [0.09]	4,0 [0.16]	2,2 [0.09]
Overtravel (min.)	1,0 [0.04]	0,5 [0.02]	-

Figure 12. 924CE55 Dimensions



Roller Plunger with Boot Seal Operating Characteristics	S 1NC/1NO (BBM)	T 1NC/1NO (MBB)	Y 1NC
Free position (±0,4 [0.02])	35,7 [1.41]	35,7 [1.41]	35,7 [1.41]
Pretravel (max.)	2,2 [0.09]	4,0 [0.16]	2,2 [0.09]
Overtravel (min.)	1,0 [0.04]	0,5 [0.02]	-

TABLE 4. LEVERS FOR USE WITH 924CE FRONT ROTARY SWITCHES				
	Catalog Listing	Rod/ Roller Material	Rod/Roll- er Dia. mm [in]	Roller Width mm [in]
Fix	ed length le	ver; 38,1 mn	n [1.5 in] rad	ius
	GLZ51A	Nylon	19,0 [0.75]	6,35 [0.25]
	GLZ51B	Steel	19,0 [0.75]	6,35 [0.25]
	GLZ51C	Nylon	25,4 [1.00]	12,7 [0.50]
	GLZ51E	Bronze	19,0 [0.75]	6,35 [0.25]
	GLZ51T	SST	19,0 [0.75]	9,5 [0.38]
Fixed length offset lever; 38,1 mm [1.5 in] radius				
	GLZ55A	Nylon	19,0 [0.75]	6,35 [0.25]
	GLZ55B	Steel	19,0 [0.75]	6,35 [0.25]
	GLZ55E	Bronze	19,0 [0.75]	6,35 [0.25]

ADDITIONAL MATERIALS

The following associated literature is available on the Honeywell web site at sps.honeywell.com/ast:

- Product line guide
- Product range guide
- Installation instructions
- Certificates: SIL
- Certificates: Electrical endurance
- Certificates: Mechanical endurance
- Safety switch quick reference guide

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