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Honeywell

MICRO SWITCH Cable-Pull Safety Switches

004785

Issue 3

Datasheet



DESCRIPTION

CPS Series

Honeywell's MICRO SWITCH CPS Series Cable-Pull Safety Switches provide a readily accessible emergency stop signal, a cost-effective means compared to using multiple emergency stop push-buttons. The CPS Series Cable Pull Safety Switch's internal mechanism latches on both slackened cable (push) and pulled cable.

The 1CPS is intended for use in applications where the cable span is 76 m [250 ft] or shorter. It is an economical solution for shorter runs or zone protection typical to automated systems. The 2CPS Series is intended for use in very long cable runs of 152 m [500 ft] or shorter, such as long conveyor lines found in warehouses.

A line in the midpoint of the cable tension window indicates proper cable tension, providing easy set-up. The direct opening switch contacts are held closed when the actuating cable is under proper tension and the reset knob is set to the RUN position. When the actuating cable is pulled, slackened, or broken, a cam positively opens the NC (Normally Closed) switch contacts. The snap-action operation causes the switch contacts to change state and mechanically latch almost simultaneously when the cable is pulled, slackened, or broken. The NC switch contacts remain open until the CPS is reset by properly tensioning the cable and manually rotating the reset knob.

When the direct opening switch contacts open, the auxiliary contacts also actuate (open contacts close). The auxiliary contacts are electrically isolated from the direct-opening switch contacts. These NO (Normally Open) contacts may be used for monitoring or signaling.

DIFFERENTIATION

• Internal mechanism latches on both slackened cable (push) and pulled cable

FEATURES

- Direct opening action of NC (Normally Closed) contacts
- 2CPS: 2NO/2NC, 1NO/3NC, or 4NC contact configurations
- 1CPS: 1NO/1NC, 2NO/2NC, 1NO/3NC, or 4NC contact configurations
- Typical cable span of 76 m [250 ft] in an environment with a temperature change of ±17 °C [±30 °F]. Longer spans are possible depending upon temperature change and installation
- Choice of three actuator configurations (2CPS)
- Removable contact block version available (2CPS)
- J-hook turnbuckle included (2CPS)
- Large wiring cavity with straight-through wiring
- Models avaliable without broken cable, slack-cable detection
- 24 Vdc or 120 Vac bright, multi-cluster high-intensity LED status indicator light available on 2CPS. Single LED on 1CPS
- Gold-plated contacts are standard on 2CPS, available on 1CPS
- Electrostatic, epoxy-coated, die-cast zinc housing
- Optional hardware packets available

POTENTIAL INDUSTRIAL APPLICATIONS

- Long conveyor systems found in warehouses and distribution centers
- Conveyor systems with a high amount of vibration
- Conveyor systems that experience wide temperature swings
- Long conveyor systems where easy-through wiring, or highly visible trip status, is required
- Perimeter guarding in hose-down conditions
- Packaging equipment
- Assembly lines

VALUE TO CUSTOMERS

- Cost-effective means of providing an emergency stop signal compared to multiple emergency stop push buttons
- Capability enhances productivity by minimizing nuisance stops due to variations in temperature, stretch of cable over time, or other application variables
- Direct opening of normally closed contacts when cable is actuated

PORTFOLIO

The CPS Series is the largest switch in Honeywell's MICRO SWITCH line of safety switches. For more details on the extensive line of Honeywell safety switches, click here.

Safety and Productivity Solutions

Table 1. Specifications

Characteristic	Parameter
Description	cable-pull safety switches
Switching options	1NO/1NC direct acting 2NO/2NC direct acting 1NO/3NC direct acting 4NC direct acting
Sealing	IP67, NEMA 1, 4, 12, 13
Contacts	silver, gold plated over silver
Conduit/Connectors	1/2 NPT, PG 13.5, 20 mm, PF 1/2; Brad Harrison 10-pin conductor
Force to maintain actuation shaft	2CPS: 25 lb*
Actuation shaft operating force	2CPS: 40 lb*
Operating temperature	-40 °C to 80 °C [-40 °F to 176 °F]
Storage temperature	1CPS: -40 °C to 85 °C [-40 °F to 185 °F]
Mechanical endurance	1 million operations
Rated thermal current (I_{th})	10 A
Rated impulse withstand (U_{imp})	2500 V
Rated insulation voltage (U_i)	300 V
Useable gold-plated current	1 mA to 50 mA, 60 Vdc max./125 Vdc max.
Pollution degree	3
Conditional short circuit current	1000 A
Short circuit protective device (type/maximum rating)	Class J fuse (10 A/600 V)
Shock	15 g per IEC 68-2-27
Vibration	10 Hz to 500 Hz, 5 g per IEC 68-2-6
Approvals	UL, CSA, CE, SIL
Standards	 UL Listed per File E37138 against UL508 CSA Certified per File 57323 against CSA C22.2 No. 14 CE mark: The CPS complies with Low Voltage Directive 2006/95/EC; Machinery Directive 2006/42/EC only as the directives relate to the components being used in a safety function; EN 60947-1; EN 60947-5-1; EN 60947-5-5 SIL: MCTF (Mechanical Life): >1,000,000 cycles with single-sided confidence limit of 100 %. MCTF (Electrical Life): >25,000 cycles with single-sided confidence limit of 87.5 %. Highest SIL Capability: SIL3 (HFT:1), IEC 61508-2: 2010. Proof Test Interval: 1 Year

* Incline measures, and not typical for manual trip

Table 2. Electrical Ratings

a	ic	d	c			
A300 Ue	AC15 le	Q300 Ue	DC13 le			
Volts	Amps	Volts	Amps			
-	-	24	2.8			
120	6	125	0.55			
240	3	250	0.27			
lth = 10 A						

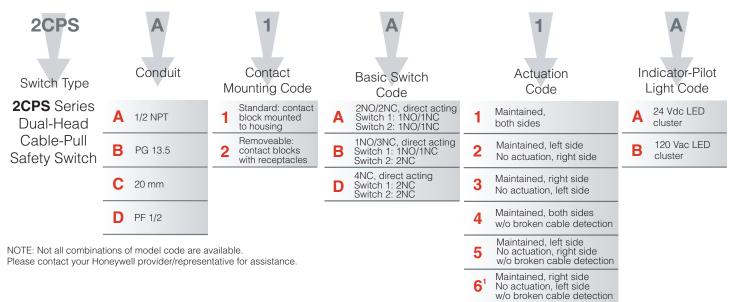
Figure 1. 1CPS Product Nomenclature and Order Guide

1CPS		Α			1			A	-N
Switch Type		Conduit		Basic	Switc de	h		ndicator-Pilot Light Code	Without Broken
1CPS Series Single-Head	Α	1/2 NPT	1	1NO/1NC direct acting Switch 1: 1NO/1NC Switch 2: None	5	1NO/1NC direct acting, gold contacts Switch 1: 1NO/1NC Switch 2: None	Α	24 Vdc LED	Cable Detection
Cable-Pull Safety Switch	В	PG 13.5	2	2NO/2NC direct acting Switch 1: 1NO/1NC Switch 2: 1NO/1NC	6	2NO/2NC direct acting, gold contacts Switch 1: 1NO/1NC Switch 2: 1NO/1NC	в	120 Vac LED	
	С	20 mm	3	1NO/3NC direct acting Switch 1: 1NO/1NC Switch 2: 2NC	7	1NO/3NC direct acting, gold contacts Switch 1: 1NO/1NC Switch 2: 2NC			
	D	PF 1/2	4	4NC direct acting Switch 1: 2NC Switch 2: 2NC	8	4NC direct acting, gold contacts Switch 1: 2NC Switch 2: 2NC			

NOTE: Not all combinations of model code are available.

Please contact your Honeywell provider/representative for assistance.

Figure 2. 2CPS Product Nomenclature and Order Guide



¹ Not valid on 4NC switches

TEMPERATURE-SPAN DISTANCE APPLICATION INFORMATION

Cable-pull switches featuring broken cable detection require pre-tensioning in order to enable the RUN condition.

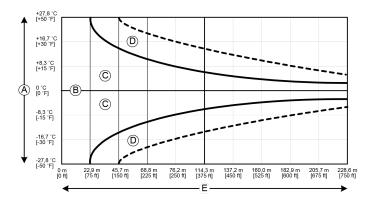
The relative expansion or contraction of the steel actuating cable when the ambient temperature increases or decreases must be taken into account when pre-tensioning a cable pull switch.

The change in cable length with change in temperature can cause significant nuisance shut downs on longer runs.

Install the system when the temperature is at the mid point of the extremes. If a warehouse has a low temperature of 15.6 °C [60 °F]and a high of 32.2 °C [90 °F], set up the system at the midpoint 23.9 °C [75 °F].

Use an endspring or another CPS at the opposite end of the cable span to double the temperature tolerance and to meet the requirements of EN 418.

Figure 3. Total Temperature Variation vs. Cable Span Distance



A = Total temperature variation

- B = Setup point Ideally at middle of temperature extremes
- C = Cable Pull Switch usable temperature span without endspring or second CPS
- D = Cable Pull Switch usable temperature span with endspring or second CPS

E = Cable span distance

Table 3. Circuitry Charts

Table 3. Circu	
Circuitry	Chart
1NO/1NC	$ \bigoplus \underbrace{\begin{array}{c} 21 \\ 13 \\ 14 \end{array}}^{22} $
2NO/2NC	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
1NO/3NC	$ \begin{array}{c} \textcircled{\begin{tabular}{cccccccccccccccccccccccccccccccccccc$
4NC	$ \begin{array}{c} \textcircled{\begin{tabular}{c} \hline 11 & 12 \\ \hline 21 & 22 \\ \hline \hline \end{array} & \begin{array}{c} \hline 11 & 12 \\ \hline 21 & 22 \\ \hline \hline \end{array} & \begin{array}{c} \hline 21 & 22 \\ \hline \hline \end{array} & \begin{array}{c} \hline 21 & 22 \\ \hline \hline \end{array} \end{array} $

Table 4. 1CPS Contact Blocks

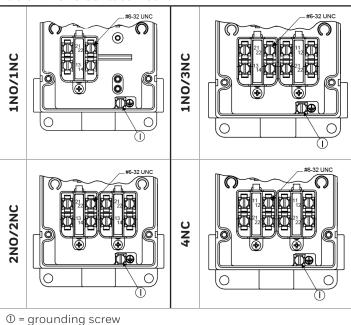


Table 5. 2CPS Contact Blocks

Contact Block Me	ounted to Housing	Removable Cont Heavy-Duty Wiri	
	A = grounding screw		A = grounding screw
2NO/2NC	M3	2N0/2NC	#6-32 UNC
1NO/3NC		1NO/3NC	21 22 H H 11 12 H H 13 14 H 21 22 H O O O O O
4NC			

Table 6. 1CPS With Broken Cable Detection Order Guide

Catalog Listing	Conduit	Switching	Bar Chart ■ Contact Closed □ Contact Open	Contact Material	Pilot Light 24 Vdc LED	Pilot Light 120 Vac LED	Notes
1CPSA1	1/2 in NPT	1NO/1NC		silver alloy			_
1CPSA1A	1/2 in NPT	1NO/1NC	$ \bigcirc \qquad \qquad \bigcirc \bigcirc \qquad \bigcirc \qquad \bigcirc \qquad \bigcirc \bigcirc \qquad \qquad \bigcirc \bigcirc \qquad \qquad \bigcirc \qquad \bigcirc \qquad \bigcirc \qquad \bigcirc \qquad \qquad \bigcirc \qquad \qquad \bigcirc \qquad \qquad \bigcirc \qquad \bigcirc \qquad \qquad \bigcirc \qquad \bigcirc \qquad \bigcirc \qquad \bigcirc \qquad \bigcirc \qquad \bigcirc \qquad \qquad \bigcirc \qquad \bigcirc \qquad \bigcirc \qquad \bigcirc \qquad \qquad \bigcirc \qquad \qquad \bigcirc \qquad \bigcirc \qquad \bigcirc \qquad \bigcirc \qquad \bigcirc \qquad \bigcirc \qquad \qquad \qquad \bigcirc \qquad \qquad \bigcirc \qquad \qquad \qquad \qquad \qquad \qquad \bigcirc \qquad \qquad$	silver alloy	✓		-
1CPSA1B	1/2 in NPT	1NO/1NC	[0.39] [$(0.39]$ [$(0.39]12,7 7,9 3,8 3,8 7,9 12,7[0.5]$ [$(0.31]$ [$(0.15]$ [$(0.15]$ [$(0.31]$] $(0.5]$	silver alloy		✓	-
1CPSA5	1/2 in NPT	1NO/1NC	Left 21-22	gold-plated			-
1CPSC1	20 mm	1NO/1NC	Switch 13-14	silver alloy			_
1CPSC1A	20 mm	1NO/1NC	Slackened - cable - Pulled - Cable - Pulled -	silver alloy	\checkmark		-
1CPSC5	20 mm	1NO/1NC		gold-plated			-
1CPSA2	1/2 in NPT	2N0/2NC		silver alloy			-
1CPSA2A	1/2 in NPT	2N0/2NC		silver alloy	~		-
1CPSA2B	1/2 in NPT	2N0/2NC	$\bigoplus_{9,9} \qquad \qquad \bigoplus_{0 \qquad 9,9}$	silver alloy		✓	-
1CPSA6	1/2 in NPT	2N0/2NC	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	gold-plated			-
1CPSA6A	1/2 in NPT	2N0/2NC	Left 21-22	gold-plated	✓		-
1CPSA6B	1/2 in NPT	2N0/2NC	Right 21-22	gold-plated		~	_
1CPSC2	20 mm	2N0/2NC	Switch 13-14	silver alloy			-
1CPSC2A	20 mm	2N0/2NC	Slackened - cable - Pulled - Cable - Slackened - Slackened - Cable - C	silver alloy	~		_
1CPSC2B	20 mm	2N0/2NC		silver alloy		✓	-
1CPSC6	20 mm	2NO/2NC		gold-plated			_
1CPSC6A	20 mm	2NO/2NC		gold-plated	~		_
1CPSA3	1/2 in NPT	1NO/3NC		silver alloy			_
1CPSA3A	1/2 in NPT	1NO/3NC		silver alloy	✓		_
1CPSA3A-F01	1/2 in NPT	1NO/3NC	O O 9,9 0 9,9 [0.39] I [0.39]	silver alloy	~		10-pin Brad Harrison con- nector; actuator to right
1CPSA3A-F02	1/2 in NPT	1NO/3NC	12.7 7.9 3.8 3.8 7.9 12.7 [0.5] [0.31] [0.15] [0.15] [0.5] Left 21-22	silver alloy	~		10-pin Brad Harrison con- nector; actuator to left
1CPSA3B	1/2 in NPT	1NO/3NC	Slackened - Cable - Pulled - Pulled - Cable tension Cable	silver alloy		✓	
1CPSA7	1/2 in NPT	1NO/3NC	cable tension cable	gold-plated			_
1CPSC3	20 mm	1NO/3NC		silver alloy			_
1CPSC3A	20 mm	1NO/3NC		silver alloy	~		-
1CPSC7	20 mm	1NO/3NC		gold-plated			
1CPSA4	1/2 in NPT	4NC	$ \begin{array}{ccc} \bigoplus & \bigoplus \\ 9,9 & 0 & 9,9 \\ [0,39] & I & [0.39] \end{array} $	silver alloy			-
1CPSA4B	1/2 in NPT	4NC	12,7 7,9 3,8 3,8 7,9 12,7 [0.5] [0.31] [0.15], [0.15] [0.31] [0.5]	silver alloy		~	_
1CPSA8	1/2 in NPT	4NC	Left 11-12 Switch 21-22 Right 11-12	gold-plated			-
1CPSC4	20 mm	4NC	Switch 21-22	silver alloy			-
1CPSC8	20 mm	4NC	Slackened cable cable - Pulled - Cable cable	gold-plated			-

Table 7. 1CPS Without	Broken	Cable	Detection	Order	Guide
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Catalog Listing	Conduit	Switching	Bar Chart ■ Contact Closed □ Contact Oper	Contact Material	Pilot Light 24 Vdc LED	Pilot Light 120 Vac LED	Notes
1CPSA1-N	1/2 in NPT	1NO/1NC	$\begin{array}{c} & \bigoplus \\ 9,9 \\ [0.39] \\ 7,9 \\ 0 \\ [0.31] \\ [0.5] \end{array}$	silver alloy			-
1CPSA1A-N	1/2 in NPT	1NO/1NC	Left 21-22 Switch 13-14	silver alloy	~		-
1CPSA1B-N	1/2 in NPT	1NO/1NC	Pulled cable	silver alloy		~	_
1CPSA2-N	1/2 in NPT	2NO/2NC	\ominus 9,9	silver alloy			-
1CPSA2B-N	1/2 in NPT	2NO/2NC	[0.39] 7,9 12,7 0 [0.31] [0.5] Left 21-22 Switch 13-14 Right 21-22 Switch 13-14 Pulled cable	silver alloy		V	_
1CPSA4B-N	1/2 in NPT	4NC	9,9 [0.39] 7,9 [0.31] [0.5] Left 11-12 Switch 21-22 Right 11-12 Switch 21-22 Pulled cable	silver alloy		*	_

Table 8. 2CPS With Broken Cable Detection and Silver Alloy Contacts Order Guide

Catalog Listing	Conduit	Switching	Bar Chart ■ Contact Closed □ Contact Open	Standard Contact Block	Removeable Contact Block	Actuation	Pilot Light LED	Notes
2CPSA1A1	1/2 in NPT	2NO/2NC		~		Both		
2CPSA1A1A	1/2 in NPT	2N0/2NC		~		Both	24 Vdcdc	
2CPSA1A1A-FW	1/2 in NPT	2NO/2NC		~		Both	24 Vdc	10-pin Brad Harrison connector
2CPSA1A1B	1/2 in NPT	2N0/2NC		\checkmark		Both	120 Vac	
2CPSA1A2	1/2 in NPT	2NO/2NC		~		Left only		
2CPSA1A2A	1/2 in NPT	2NO/2NC		~		Left only	24 Vdc	
2CPSA1A2A-FW	1/2 in NPT	2N0/2NC		~		Left only	24 Vdc	10-pin Brad Harrison connector
2CPSA1A2B	1/2 in NPT	2NO/2NC		~		Left only	120 Vac	
2CPSA1A3	1/2 in NPT	2NO/2NC		~		Right only		
2CPSA1A3A	1/2 in NPT	2NO/2NC		\checkmark		Right only	24 Vdc	
2CPSA1A3A-FW	1/2 in NPT	2NO/2NC	$\begin{array}{ccccc} & & & & & & \\ & & & & \\ 9,9 & 0 & & 9,9 \\ 0,391 & 1 & & & \\ 127 & 127 & 38 & 38 & 79 & 1 & 127 \\ \end{array}$	~		Right only	24 Vdc	10-pin Brad Harrison connector
2CPSA1A3B	1/2 in NPT	2NO/2NC	12,7 7,9 3.8 3.8 7,9 12,7 [0,5] [0,31] [0,15] [0,15] [0,15] [0,15] Left 21-22	~		Right only	120 Vac	
2CPSA2A1	1/2 in NPT	2NO/2NC	Right 21-22 Switch 13-14		~	Both		
2CPSA2A1A	1/2 in NPT	2N0/2NC		-	~	Both	24 Vdc	
2CPSA2A1B	1/2 in NPT	2NO/2NC	cable tension cable		~	Both	120 Vac	
2CPSA2A2	1/2 in NPT	2NO/2NC			\checkmark	Left only		
2CPSA2A2A	1/2 in NPT	2N0/2NC			~	Left only	24 Vdc	
2CPSA2A2B	1/2 in NPT	2NO/2NC			~	Left only	120 Vac	
2CPSA2A3	1/2 in NPT	2NO/2NC			~	Right only		
2CPSA2A3A	1/2 in NPT	2NO/2NC			\checkmark	Right only	24 Vdc	
2CPSA2A3B	1/2 in NPT	2NO/2NC			~	Right only	120 Vac	
2CPSC1A1	20 mm	2NO/2NC		\checkmark		Both		
2CPSC1A1A	20 mm	2NO/2NC		~		Both	24 Vdc	
2CPSC1A2	20 mm	2N0/2NC		~		Left only		
2CPSC1A2A	20 mm	2N0/2NC		✓		Left only	24 Vdc	
2CPSC1A3	20 mm	2NO/2NC		\checkmark		Right only		
2CPSC1A3A	20 mm	2N0/2NC		✓		Right only	24 Vdc	
2CPSC2A1A	20 mm	2N0/2NC			\checkmark	Both	24 Vdc	

Table 8. 2CPS With Broken Cable Detection and Silver Alloy Contacts Order Guide, continued

Catalog Listing	Conduit	Switching	Bar Chart ■ Contact Closed □ Contact Open	Standard Contact Block	Removeable Contact Block	Actuation	Pilot Light LED	Notes
2CPSA1B1	1/2 in NPT	1NO/3NC		~		Both		
2CPSA1B1A	1/2 in NPT	1NO/3NC		✓		Both	24 Vdc	
2CPSA1B1A-F01	1/2 in NPT	1NO/3NC		~		Both	24 Vdc	10-pin Brad Harrison connector
2CPSA1B1B	1/2 in NPT	1NO/3NC		~		Both	120 Vac	
2CPSA1B2	1/2 in NPT	1NO/3NC		~		Left only	120 Vac	
2CPSA1B2A	1/2 in NPT	1NO/3NC		\checkmark		Left only	24 Vdc	
2CPSA1B2A-F01	1/2 in NPT	1NO/3NC	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	~		Left only	24 Vdc	10-pin Brad Harrison connector
2CPSA1B2B	1/2 in NPT	1NO/3NC	Switch 13-14 Right 11-12 Switch 21-22	~		Left only	120 Vac	
2CPSA1B3	1/2 in NPT	1N0/3NC	Slackened Cable	✓		Right only		
2CPSA1B3A	1/2 in NPT	1N0/3NC		\checkmark		Right only	24 Vdc	
2CPSA1B3A-F01	1/2 in NPT	1NO/3NC		~		Right only	24 Vdc	10-pin Brad Harrison connector
2CPSA1B3B	1/2 in NPT	1NO/3NC		~		Right only	120 Vac	
2CPSA2B1	1/2 in NPT	1NO/3NC			✓	Both		
2CPSA2B1A	1/2 in NPT	1NO/3NC			✓	Both	24 Vdc	
2CPSA2B1B	1/2 in NPT	1NO/3NC			~	Both	120 Vac	
2CPSC1D1A	20 mm	4NC	9,9 0 9,9 12,7 7,9 3,8 3,8 7,9 10,5 [0,31] [0,15] [0,31] [0,5] Switch 21-22 - - - Right 11-12 - - - Switch 21-22 - - - Suble - - - -	V		Both	24 Vdc	

Catalog Listing	Conduit	Switching	Bar Chart ■ Contact Closed □ Contact Open	Standard Contact Block	Removeable Contact Block	Actuation	Pilot Light LED	Notes
2CPSA1A4	1/2 in NPT	2N0/2NC		~		Both		
2CPSA1A4B	1/2 in NPT	2NO/2NC	⊖ 9,9 [0,39]	\checkmark		Both	120 Vac	
2CPSA1A5B	1/2 in NPT	2NO/2NC	[0.39] 7,9 12,7 0 [0.31] [0.5]	\checkmark		Left only	120 Vac	
2CPSA1A6B	1/2 in NPT	2NO/2NC	Left 21-22	✓		Right only	120 Vac	
2CPSA2A4A	1/2 in NPT	2N0/2NC	Switch 13-14 Right 21-22		✓	Both	24 Vdc	
2CPSA2A4B	1/2 in NPT	2N0/2NC	Switch 13-14		~	Both	120 Vac	
2CPSC1A4-F02	20 mm	2NO/2NC		~		Both		No turnbuck- les included

Table 9. 2CPS Without Broken Cable Detection and With Silver Alloy Contacts Order Guide

Figure 4. 1CPS Dimensional Drawing

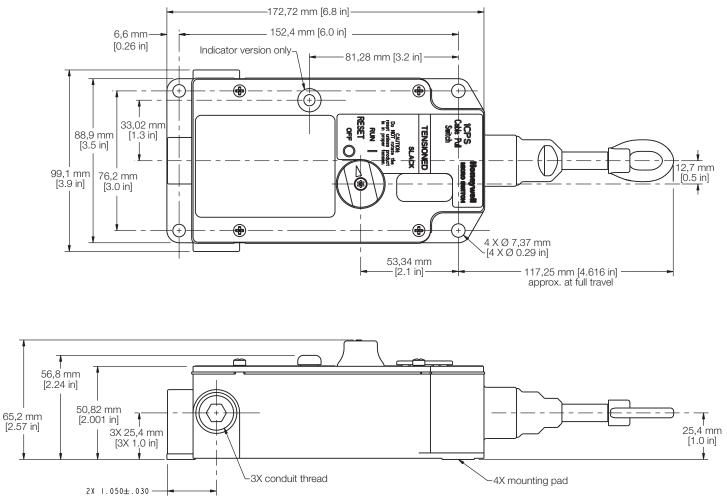


Figure 5. 2CPS Dimensional Drawing

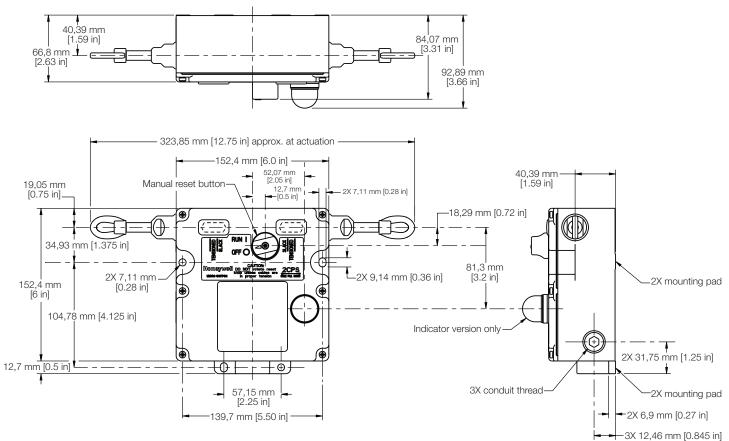


Figure 6. 1CPS Application Information

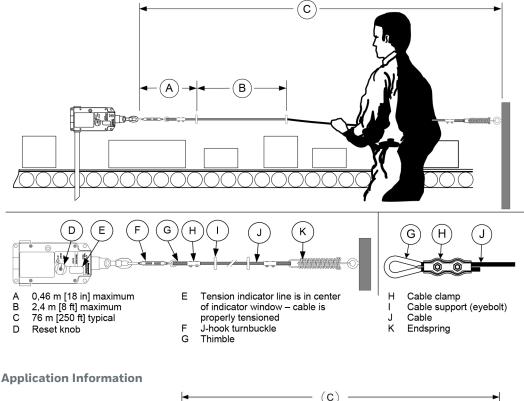


Figure 7. 2CPS Application Information

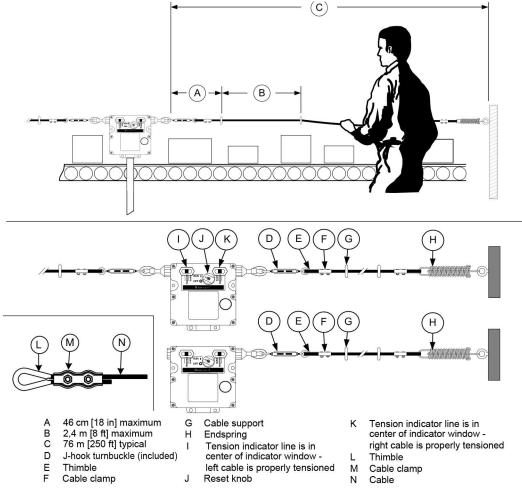
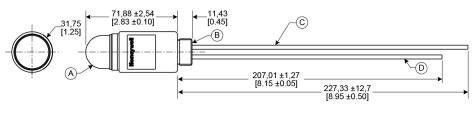


Table 10. Accessori	es/Hardware Packets
Catalog Listing	Accessory
CLSZC1	Cable - 7,6 m [25 ft] length
CLSZC2	Cable - 15,2 m [50 ft] length
CLSZC3	Cable - 30,5 m [100 ft] length
CLSZC4	Cable - 45,7 m [150 ft] length
CLSZC5	Cable - 61 m [200 ft] length
CLSZC7	Cable - 76,2 m [250 ft] length
CLSZTC	(2) Thimbles(2) Low-profile duplex cable clamps
CLSZ1S	(1) Draw-bar endspring
CPSZ1E	M6 x 1 x 60 mm eyebolt
CPSZ1S	(1) Draw-bar endspring
CPSZK1	 (1) J-hook turnbuckle with lock nuts (2) Thimbles (2) Low-profile duplex cable clamps (16) Sets of cable supports [(16) 1/4-20 eye bolts, (32) 1/4-20 nuts, (32) flat washers, (16) lock washers]
CPSZK2	European hardware packet (1) J-hook turnbuckle with lock nuts (2) Thimbles (2) Stainless steel cable clamps (16) Sets of cable supports [(16) 1/4-20 eye bolts, (32) 1/4-20 nuts, (32) flat washers, (16) lock washers]
CPSZTB	J-hook turnbuckle with lock nuts (included with 2CPS)
CPSLED24	Multi-cluster LED accessory - 24 Vdc (conduit mount)
CPSLED120	Multi-cluster LED accessory - 120 Vac (conduit mount)
CPS-BRACKET	Mounting bracket (to be used with 1CPS or 2CPS)

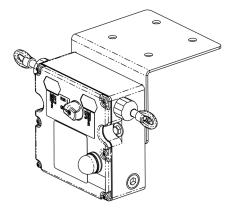
Table 10. Accessories/Hardware Packets

Figure 8. CPSLED Dimensional Drawing



- A Multi-LED red pilot light
- B 1/2-14 NPSM Thread
- C 18 AWG red PVC insulation
- D 18 AWG black PVC insulation

Figure 9. CPS-Bracket



ADDITIONAL MATERIALS

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

- Product line guide
- Product part listing/nomenclature tree
- Product range guide
- CPS troubleshooting guide
- Electromechanical safety switch product selection guide
- Application note: MICRO SWITCH switches in conveyor applications

▲ WARNING RISK TO LIFE OR PROPERTY

Never use this product for an application involving serious risk to life or property without ensuring that the system as a whole has been designed to address the risks, and that this product is properly rated and installed for the intended use within the overall system.

Failure to comply with these instructions could result in death or serious injury.

A WARNING MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

Warranty/Remedy

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items that Honeywell, in its sole discretion, finds defective. **The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While Honeywell may provide application assistance personally, through our literature and the Honeywell web site, it is buyer's sole responsibility to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this writing. However, Honeywell assumes no responsibility for its use.

Find out more

Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office. To learn more about Honeywell's products, call **+1-815-235-6847** or **1-800-537-6945**, visit **sensing.honeywell.com**, or e-mail inquiries to **info.sc@honeywell.com**

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