CPS SERIES

004785
Issue 7

MICRO SWITCH Cable-Pull Safety Switches

DESCRIPTION

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.

The optional "Easy Start" threaded bushing enables quick alignment of the mounting nut to minimize any cross threading. The panel stand-off with O-ring feature available on some listings eliminates the need for behind-the-panel hardware, provides a uniform panel height and a panel-to-cover seal.

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)
- E-stop option (1CPS)
- Low profile reset and new indicator options (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. Low profile LED (2CPS) and emergency stop button (1CPS) options also offered
- Gold-plated contacts are standard on 2CPS, available on 1CPS
- Electrostatic, epoxy-coated, die-cast zinc housing
- Optional hardware packets available

DIFFERENTIATION

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

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

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

PORTFOLIO

The MICRO SWITCH CPS series is the largest switch in Honeywell's MICRO SWITCH line of safety switches. To view the entire product portfolio, click here.

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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	1CPS & 2CPS: 25 lb*
Actuation shaft operating force	1CPS & 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, UKCA, SIL
Standards	• UL Listed per File E37138 against UL508 • CSA Certified per File 57323 against CSA C22.2 No. 14 • CE, UKCA mark: The CPS complies with Low Voltage Directive 2014/30/EU; 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

ac		dc	
A300 Ue	**AC15 Ie**	**Q300 Ue**	**DC13 Ie**
Volts	**Amps**	**Volts**	**Amps**
—	—	24	2.8
120	6	125	0.55
240	3	250	0.27
Ith = 10 A			

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Figure 1. 1CPS Product Nomenclature and Order Guide

1CPS A 1 A – ___

Switch Type	Conduit	Basic Switch Code		Indicator-Pilot Light Code	Emergency Stop	Modification Code
1CPS Series Single-Head Cable-Pull Safety Switch	**A** 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	(None) No indicator light	(None) No emergency stop	**F01** 10-pin Brad Harrison connector on bottom, actuator to right
	B 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	**A** 24 Vdc LED	**1** with emergency stop	**F02** 10-pin Brad Harrison connector on bottom, actuator to left
	C 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	**B** 120 Vac LED		**F03** 10-pin Brad Harrison connector on bottom, actuator to top
	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

2CPS A 1 A 1 A A

Switch Type	Conduit	Contact Mounting Code	Basic Switch Code	Actuation Code	Indicator-Pilot Light Code	Accessory Switch Code
2CPS Series Dual-Head Cable-Pull Safety Switch	**A** 1/2 NPT	**1** Standard: contact block mounted to housing	**A** 2NO/2NC, direct acting Switch 1: 1NO/1NC Switch 2: 1NO/1NC	**1** Maintained, both sides	(None) No indicator	(None) No acc. switch
	B PG 13.5	**2** Removeable: contact blocks with receptacles	**B** 1NO/3NC, direct acting Switch 1: 1NO/1NC Switch 2: 2NC	**2** Maintained, left side No actuation, right side	**A** 24 Vdc LED cluster	**1** 1NO, momentary
	C 20 mm		**D** 4NC, direct acting Switch 1: 2NC Switch 2: 2NC	**3** Maintained, right side No actuation, left side	**B** 120 Vac LED cluster	**2** 1NC, momentary
	D PF 1/2			**4** Maintained, both sides w/o broken cable detection	**C** 24 Vdc LED cluster, low profile	**3** 1NO, maintained
				5 Maintained, left side No actuation, right side w/o broken cable detection	**D** 120 Vac LED cluster, low profile	**4** 1NC, maintained
				6[1] Maintained, right side No actuation, left side w/o broken cable detection		

NOTE: Not all combinations of model code are available.
Please contact your Honeywell provider/representative for assistance.

[1] Not valid on 4NC switches

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TEMPERATURE-SPAN DISTANCE APPLICATION INFORMATION

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

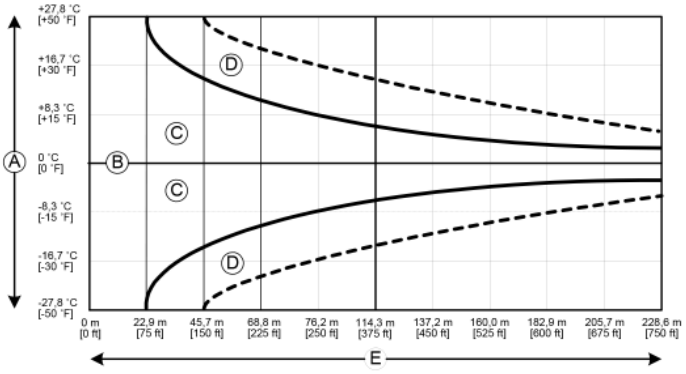
The relative expansion or contraction of the steel actuating cable when the ambient temperature increases or decreases must be taken into account when pre-tensioning a cable pull switch.

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

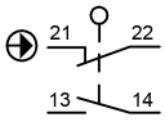
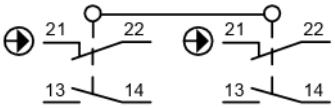
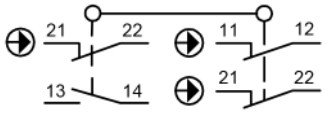
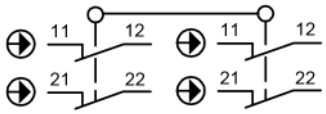
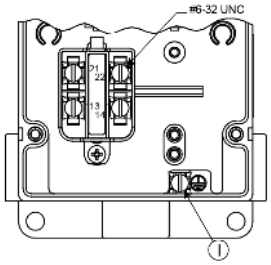
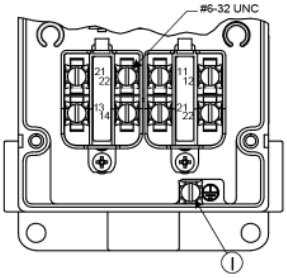
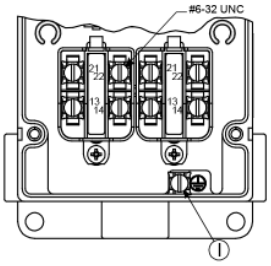
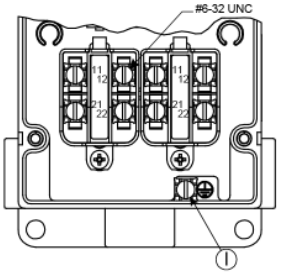
Circuitry	Chart
1NO/1NC	
2NO/2NC	
1NO/3NC	
4NC	

Table 4. 1CPS Contact Blocks

1NO/1NC		1NO/3NC	
2NO/2NC		4NC	

① = grounding screw

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Table 5. 2CPS Contact Blocks

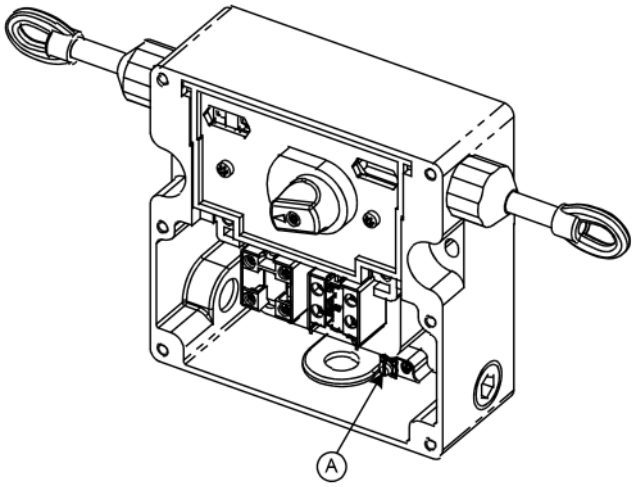
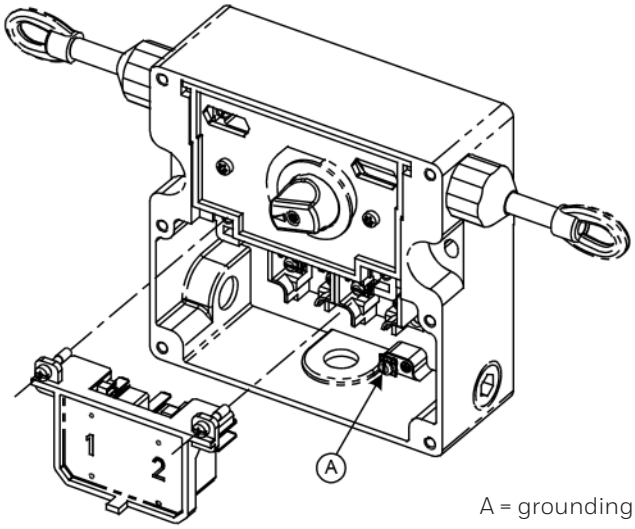
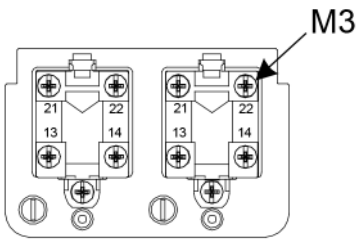
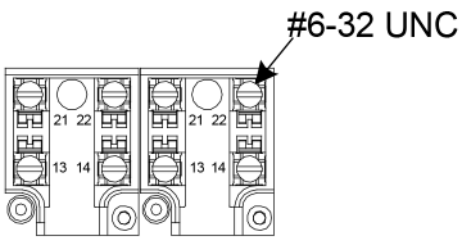
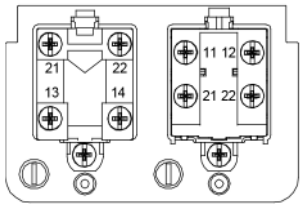
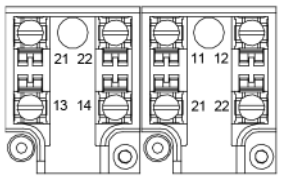
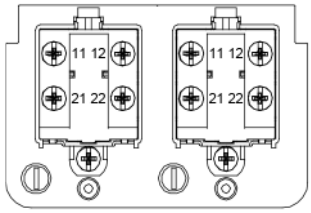
Contact Block Mounted to Housing		Removable Contact Blocks with Heavy-Duty Wiring Receptacles	
 A = grounding screw		 A = grounding screw	
2NO/2NC		**2NO/2NC**	
1NO/3NC		**1NO/3NC**	
4NC			

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TABLE 6. 1CPS WITH BROKEN CABLE DETECTION ORDER GUIDE

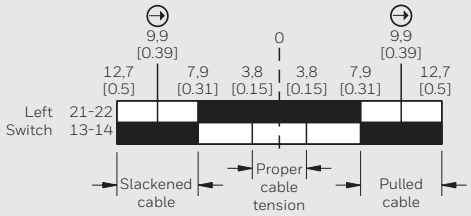
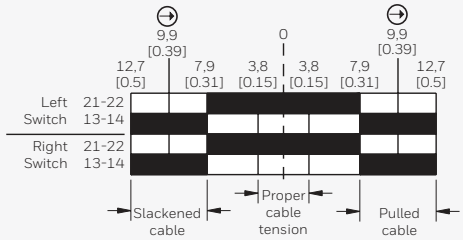
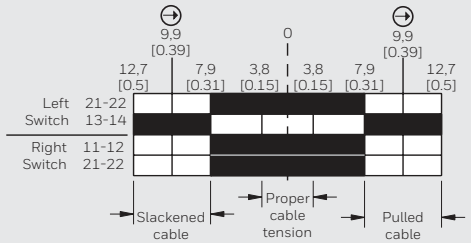
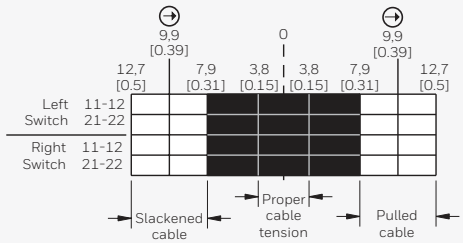
Catalog Listing	Conduit	Switching	Bar Chart ■ Contact Closed □ Contact Open	Contact Material	Pilot Light 24 Vdc LED	Pilot Light 120 Vac LED	Notes
1CPSA1	1/2 in NPT	1NO/1NC		silver alloy			-
1CPSA1A	1/2 in NPT	1NO/1NC		silver alloy	✓		-
1CPSA1B	1/2 in NPT	1NO/1NC		silver alloy		✓	-
1CPSA5	1/2 in NPT	1NO/1NC		gold-plated			-
1CPSC1	20 mm	1NO/1NC		silver alloy			-
1CPSC1A	20 mm	1NO/1NC		silver alloy	✓		-
1CPSC5	20 mm	1NO/1NC		gold-plated			-
1CPSA2	1/2 in NPT	2NO/2NC		silver alloy			-
1CPSA2A	1/2 in NPT	2NO/2NC		silver alloy	✓		-
1CPSA2B	1/2 in NPT	2NO/2NC		silver alloy		✓	-
1CPSA6	1/2 in NPT	2NO/2NC		gold-plated			-
1CPSA6A	1/2 in NPT	2NO/2NC		gold-plated	✓		-
1CPSA6B	1/2 in NPT	2NO/2NC		gold-plated		✓	-
1CPSC2	20 mm	2NO/2NC		silver alloy			-
1CPSC2A	20 mm	2NO/2NC		silver alloy	✓		-
1CPSC2B	20 mm	2NO/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		silver alloy	✓		10-pin Brad Harrison connector; actuator to right
1CPSA3A-F02	1/2 in NPT	1NO/3NC		silver alloy	✓		10-pin Brad Harrison connector; actuator to left
1CPSA3B	1/2 in NPT	1NO/3NC		silver alloy		✓	-
1CPSA7	1/2 in NPT	1NO/3NC		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		silver alloy			-
1CPSA4B	1/2 in NPT	4NC		silver alloy		✓	-
1CPSA8	1/2 in NPT	4NC		gold-plated			-
1CPSC4	20 mm	4NC		silver alloy			-
1CPSC8	20 mm	4NC		gold-plated			-

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TABLE TABLE 7. 1CPS WITHOUT BROKEN CABLE DETECTION ORDER GUIDE

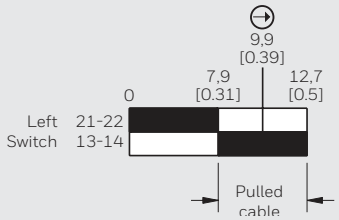
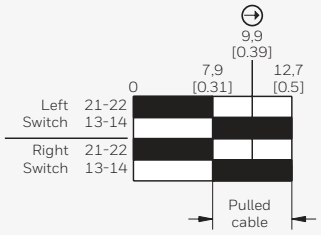
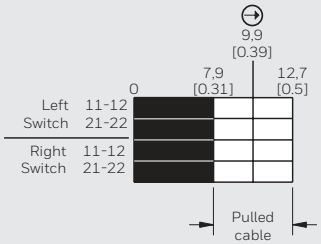
Catalog Listing	Conduit	Switching	Bar Chart ■ Contact Closed □ Contact Open	Contact Material	Pilot Light 24 Vdc LED	Pilot Light 120 Vac LED	Notes
1CPSA1-N	1/2 in NPT	1NO/1NC		silver alloy			-
1CPSA1A-N	1/2 in NPT	1NO/1NC		silver alloy	✓		-
1CPSA1B-N	1/2 in NPT	1NO/1NC		silver alloy		✓	-
1CPSA2-N	1/2 in NPT	2NO/2NC		silver alloy			-
1CPSA2B-N	1/2 in NPT	2NO/2NC		silver alloy		✓	-
1CPSA4B-N	1/2 in NPT	4NC		silver alloy		✓	-

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TABLE 6. 2CPS WITH BROKEN CABLE DETECTION AND SILVER ALLOY CONTACTS ORDER GUIDE

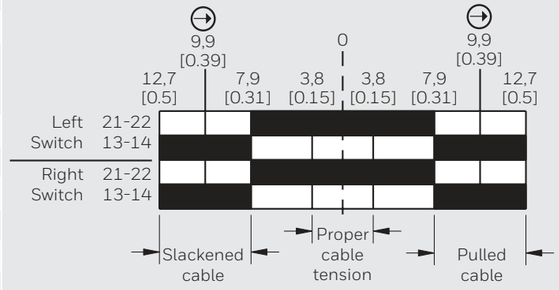
Catalog Listing	Conduit	Switching	Bar Chart ■ Contact Closed □ Contact Open	Standard Contact Block	Removeable Contact Block	Actuation	Pilot Light LED	Notes
2CPSA1A1	1/2 in NPT	2NO/2NC		✓		Both		-
2CPSA1A1A	1/2 in NPT	2NO/2NC		✓		Both	24 Vdc	-
2CPSA1A1A-FW	1/2 in NPT	2NO/2NC		✓		Both	24 Vdc	10-pin Brad Harrison connector; actuator to right
2CPSA1A1B	1/2 in NPT	2NO/2NC		✓		Both	120 Vdc	-
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	2NO/2NC		✓		Left only	24 Vdc	10-pin Brad Harrison connector; actuator to right
2CPSA1A2B	1/2 in NPT	2NO/2NC		✓		Left only	120 Vdc	-
2CPSA1A3	1/2 in NPT	2NO/2NC		✓		Right only		-
2CPSA1A3A	1/2 in NPT	2NO/2NC		✓		Right only	24 Vdc	-
2CPSA1A3A-FW	1/2 in NPT	2NO/2NC		✓		Right only	24 Vdc	10-pin Brad Harrison connector; actuator to right
2CPSA1A3B	1/2 in NPT	2NO/2NC		✓		Right only	120 Vdc	-
2CPSA2A1	1/2 in NPT	2NO/2NC			✓	Both		-
2CPSA2A1A	1/2 in NPT	2NO/2NC			✓	Both	24 Vdc	-
2CPSA2A1B	1/2 in NPT	2NO/2NC			✓	Both	120 Vdc	-
2CPSA2A2	1/2 in NPT	2NO/2NC			✓	Left only		-
2CPSA2A2A	1/2 in NPT	2NO/2NC			✓	Left only	24 Vdc	-
2CPSA2A2B	1/2 in NPT	2NO/2NC			✓	Left only	120 Vdc	-
2CPSA2A3	1/2 in NPT	2NO/2NC			✓	Right only		-
2CPSA2A3A	1/2 in NPT	2NO/2NC			✓	Right only	24 Vdc	-
2CPSA2A3B	1/2 in NPT	2NO/2NC			✓	Right only	120 Vdc	-
2CPSC1A1	20 mm	2NO/2NC		✓		Both		-
2CPSC1A1A	20 mm	2NO/2NC		✓		Both	24 Vdc	-
2CPSC1A2	20 mm	2NO/2NC		✓		Left only		-
2CPSC1A2A	20 mm	2NO/2NC		✓		Left only	24 Vdc	-
2CPSC1A3	20 mm	2NO/2NC		✓		Right only		-
2CPSC1A3A	20 mm	2NO/2NC		✓		Right only	24 Vdc	-
2CPSC2A1A	20 mm	2NO/2NC			✓	Both	24 Vdc	-

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TABLE 6. 2CPS WITH BROKEN CABLE DETECTION AND SILVER ALLOY CONTACTS ORDER GUIDE

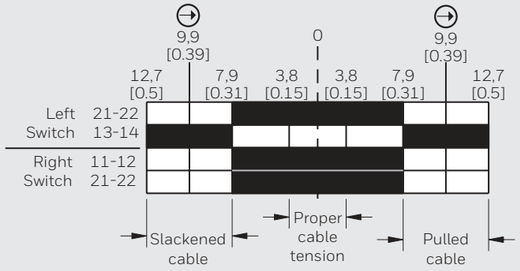
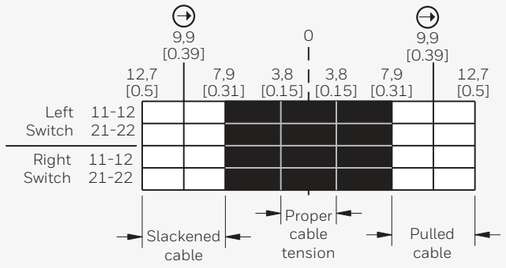
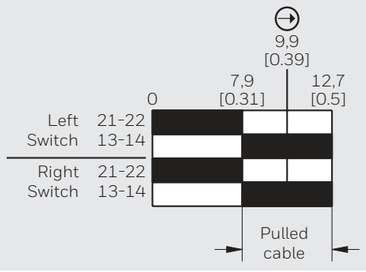
CATALOG LISTING	CONDUIT	SWITCHING	BAR CHART ■ CONTACT CLOSED □ CONTACT OPEN	STANDARD CONTACT BLOCK	REMOVEABLE CONTACT BLOCK	ACTUATION	PILOT LIGHT LED	NOTES
2CPSA1B1	1/2 in NPT	1NO/3NC		✓		Both		-
2CPSA1B1A	1/2 in NPT	1NO/3NC		✓		Both	24 Vdc	-
2CPSA1B1A-F01	1/2 in NPT	1NO/3NC		✓		Both	24 Vdc	10-pin Brad Harrison connector; actuator to right
2CPSA1B1B	1/2 in NPT	1NO/3NC		✓		Both	120 Vdc	-
2CPSA1B2	1/2 in NPT	1NO/3NC		✓		Left only	120 Vdc	-
2CPSA1B2A	1/2 in NPT	1NO/3NC		✓		Left only	24 Vdc	-
2CPSA1B2A-F01	1/2 in NPT	1NO/3NC		✓		Left only	24 Vdc	10-pin Brad Harrison connector; actuator to right
2CPSA1B2B	1/2 in NPT	1NO/3NC		✓		Left only	120 Vdc	-
2CPSA1B3	1/2 in NPT	1NO/3NC		✓		Right only		-
2CPSA1B3A	1/2 in NPT	1NO/3NC		✓		Right only	24 Vdc	-
2CPSA1B3A-F01	1/2 in NPT	1NO/3NC		✓		Right only	24 Vdc	10-pin Brad Harrison connector; actuator to right
2CPSA1B3B	1/2 in NPT	1NO/3NC		✓		Right only	120 Vdc	-
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 Vdc	-
2CPSC1D1A	20 mm	4NC		✓		Both	24 Vdc	-
2CPSA1A4	1/2 in NPT	2NO/2NC		✓		Both		-
2CPSA1A4B	1/2 in NPT	2NO/2NC		✓		Both	120 Vdc	-
2CPSA1A5B	1/2 in NPT	2NO/2NC		✓		Left only	120 Vdc	-
2CPSA1A6B	1/2 in NPT	2NO/2NC		✓		Right only	120 Vdc	-
2CPSA2A4A	1/2 in NPT	2NO/2NC			✓	Both	24 Vdc	-
2CPSA2A4B	1/2 in NPT	2NO/2NC			✓	Both	120 Vdc	-
2CPSC1A4-F02	20 mm	2NO/2NC		✓		Both		No turnbuckles included

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Figure 4. 1CPS Dimensional Drawing

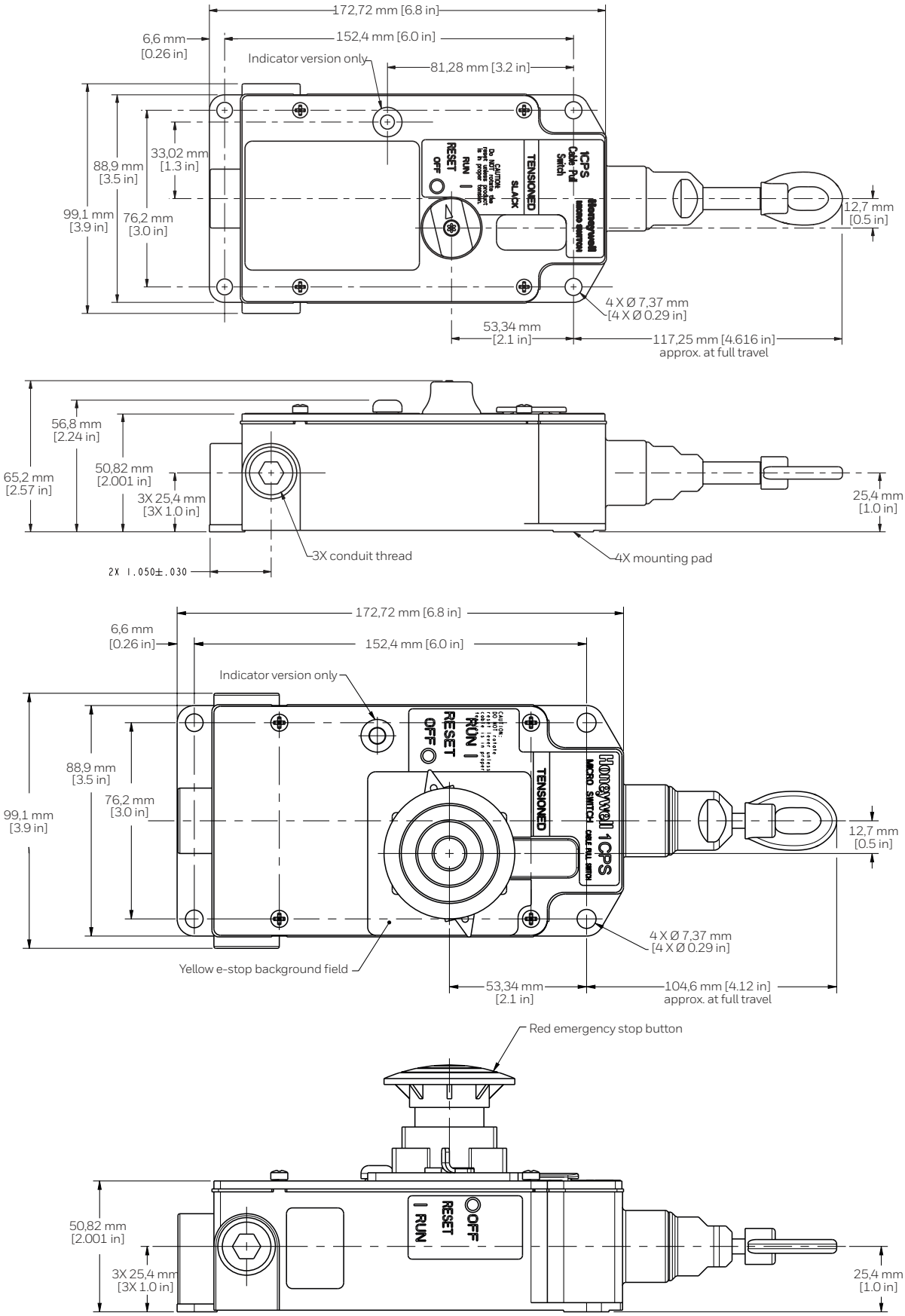


Figure 5. 2CPS Dimensional Drawing

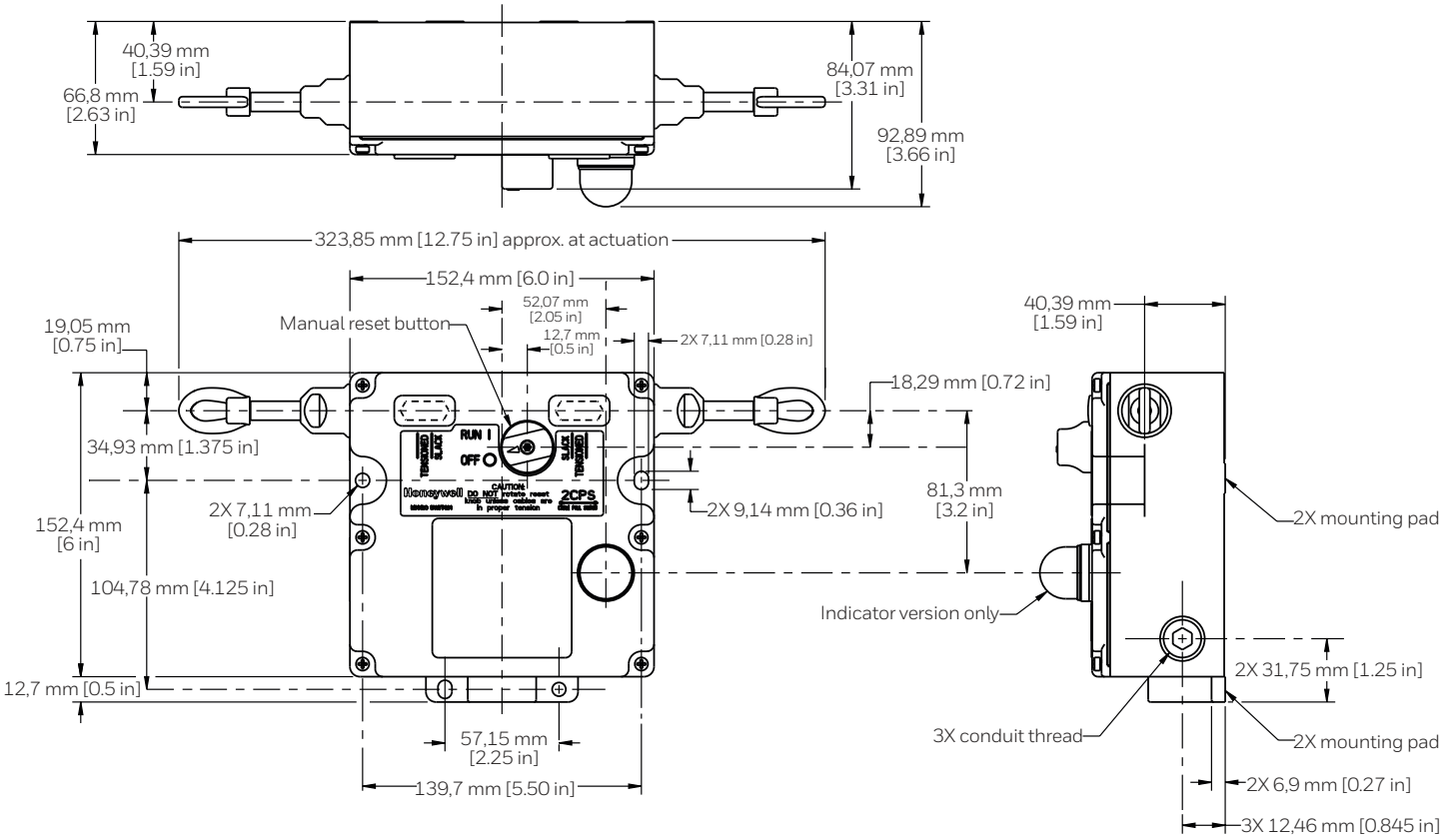
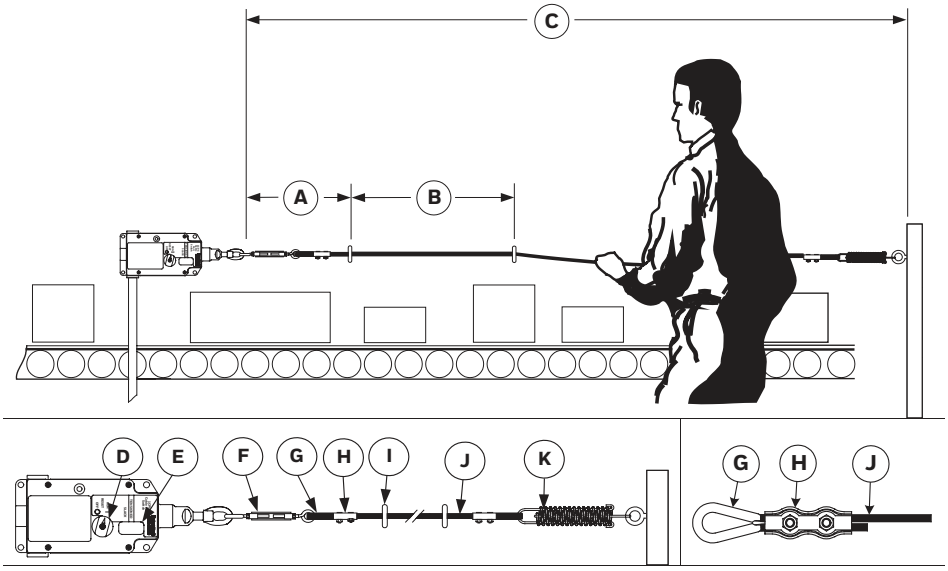
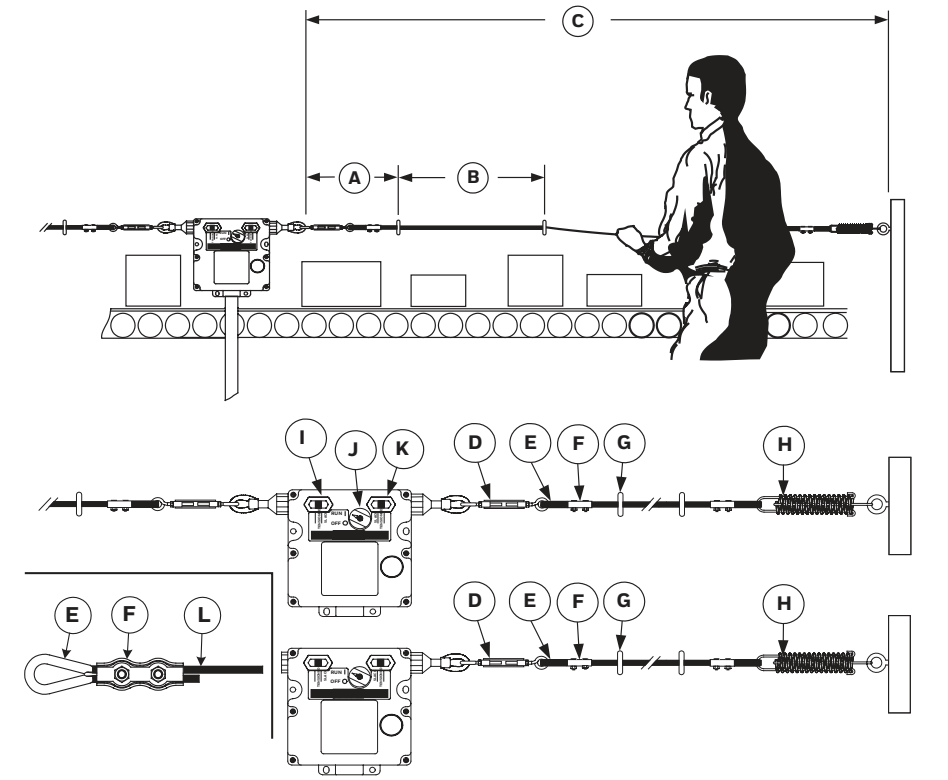


Figure 6. 1CPS Application Information



A 0,46 m [18 in] maximum
B 2,4 m [8 ft] maximum
C 76 m [250 ft] maximum
D Reset knob
E Tension indicator line is in center of indicator window - cable is properly tensioned
F J-hook turnbuckle
G Thimble
H Cable clamp
I Cable support (eyebolt)
J Cable
K Endspring

Figure 7. 2CPS Application Information



A 0,46 m [18 in] maximum
B 2,4 m [8 ft] maximum
C 76 m [250 ft] maximum
D J-hook turnbuckle
E Thimble
F Cable clamp
G Cable support (eyebolt)
H Endspring
I Tension indicator line is in center of indicator window - left cable is properly tensioned
J Reset knob
K Endspring
L Cable

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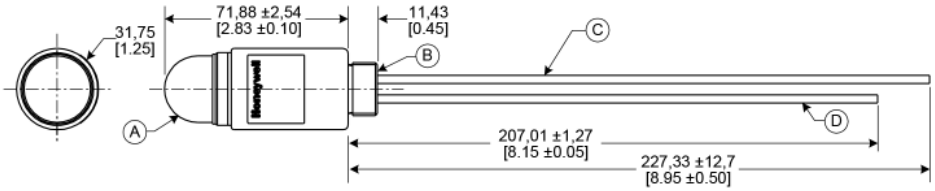
TABLE 10. ACCESSORIES/HARDWARE PACKETS

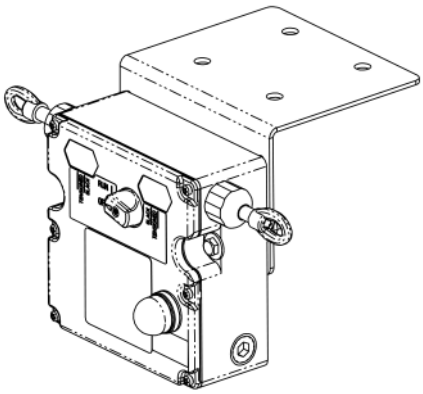
Characteristic	Parameter
CLSZC1	Cable - 7,6 m [25 ft] length
CLSZC2	Cable - 15,2 m [50 ft] length
CLSZC3	Cable - 30,5 m [100 ft] length
CLSZC4	Cable - 45,7 m [150 ft] length
CLSZC5	Cable - 61 m [200 ft] length
CLSZC7	Cable - 76,2 m [250 ft] length
CLSZTC	(2) Thimbles (2) Low-profile duplex cable clamps
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)

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 INFORMATION

The following associated literature is available 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

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MISUSE OF DOCUMENTATION

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- 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.

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