

## Valve position indication

### CPI 400 Valve Switch Visual Indicator (VI)

**DUNGS**<sup>®</sup>  
Combustion Controls

#### UL Unlisted Component

- Covered in file # MH 16727

#### CSA Certified Component

- Covered in file # 157406

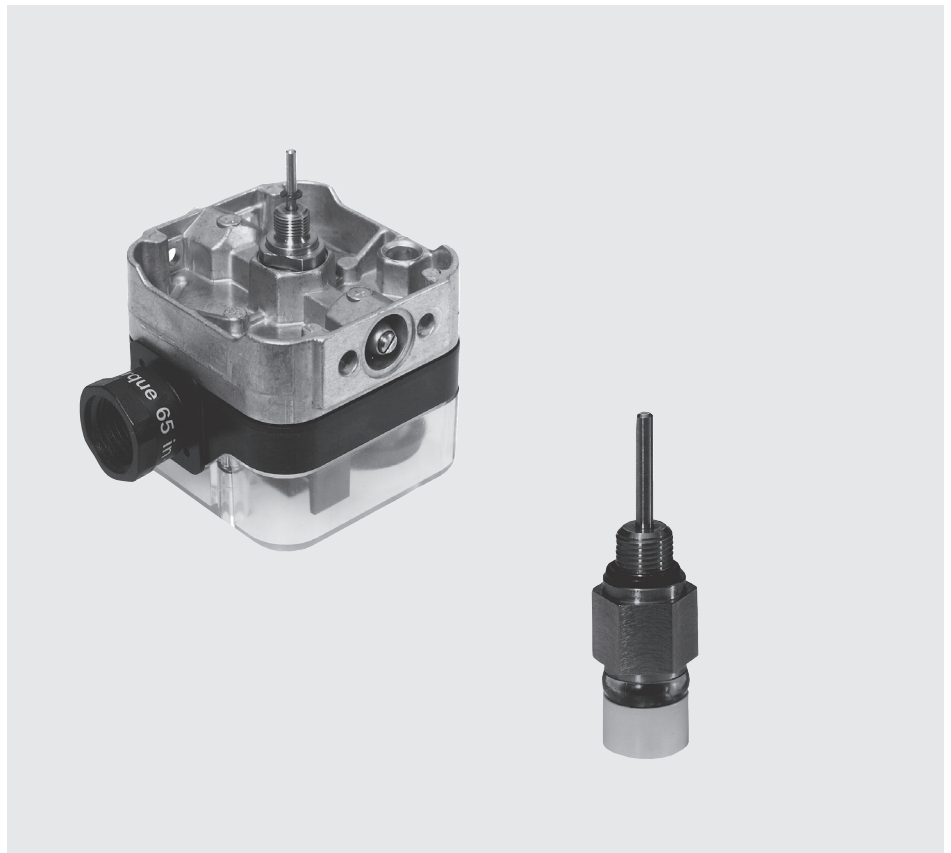
#### FM Approved Component

- Covered in file # J.I. 3007653

#### Codes and Standards:

This product is intended for installations covered by but not limited to NFPA 86, ANSI Z83.4/CSA 3.7, ANSI Z83.18/CSA 4.9, ANSI Z21.13, CSD-1, UL 795, or CSA B149.3.

**DUNGS is an ISO 9001 manufacturing facility.**



#### Description (CPI 400)

The CPI 400 (closed position indicator) visually and electrically indicates when the valve is either open or closed. The CPI 400 is suitable for making and/or breaking a circuit when the valve position changes. The CPI 400 mount directly to DUNGS automatic shutoff valves.

#### Application (CPI 400)

The CPI 400 is recommended for industrial and commercial heating applications that require visual and / or electrical indication of valve position on automatic shutoff valves. The CPI 400 is suitable for natural gas, propane, butane, air and inert gases. Suitable for up to 0.1% by volume, dry H<sub>2</sub>S when used with nickel plated brass adapter.

#### Description (Visual Indicator)

The Visual Indicator indicates when the valve is either open or closed. The Visual Indicator mounts directly to DUNGS automatic shutoff valves.

#### Application (Visual Indicator)

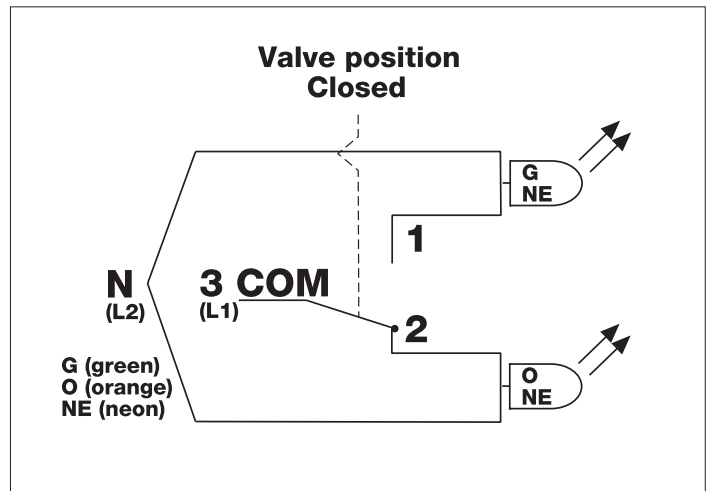
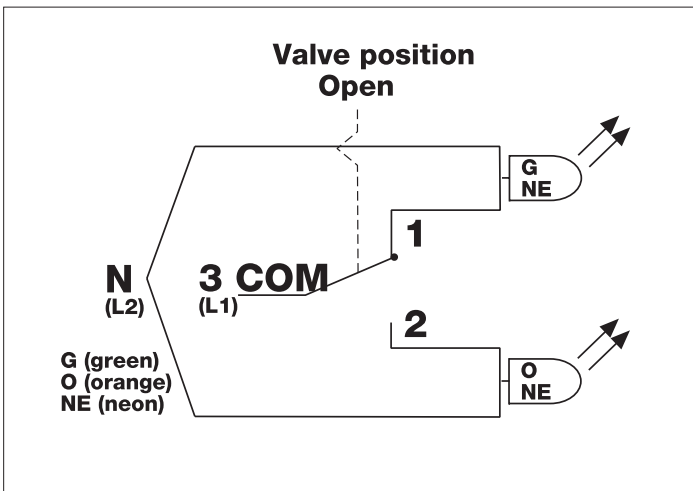
The Visual Indicator is recommended for industrial and commercial heating applications that require visual indication of valve position on automatic shutoff valves. The Visual Indicator is suitable for natural gas, propane, butane, air and inert gases.

**CPI 400** SPDT switch requires no auxiliary power. The CPI is suitable for making and/or breaking a circuit when the valve is opened or closed. An open valve is indicated by a green neon light. A closed valve is indicated by an orange neon light. When the optional 24Vac/Vdc light is used, the closed valve is indicated by a red light.

### Specifications

Max. operating pressure	7 PSI (500 mbar)	
Connection	Set screw with G 1/8" ISO 228 plunger	
Temperature range	-40 °F to +150 °F (-40 °C to +65 °C)	
Materials	CPI Housing:	Polycarbonate
	Switching contact:	Silver (Ag)
	Plunger:	Brass
	Sealing:	NBR based rubber
Electrical ratings	AC eff. 120 Vac	
Nominal current	AC max. 10A resistive @ 120 Vac AC max. 8A inductive @ 120 Vac DC max. 1A @ 24Vdc and 1A @ 12Vdc When used, the 24Vdc/Vac indicator light consumes 20mA when energized.	
Electrical connection	Screw terminals via 1/2" NPT conduit connection	
Enclosure rating	NEMA Type 4	

### CPI 400 Switching function

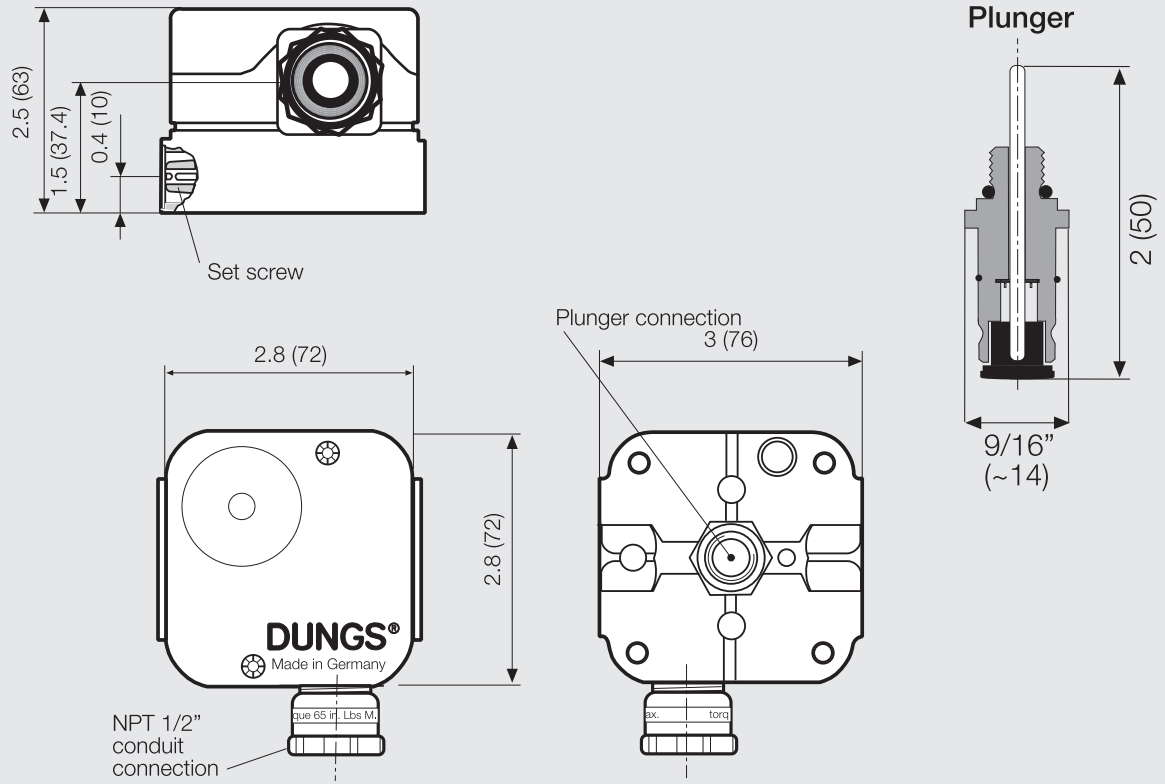


**Visual Indicator** Indicates closed and open position of the safety valve.

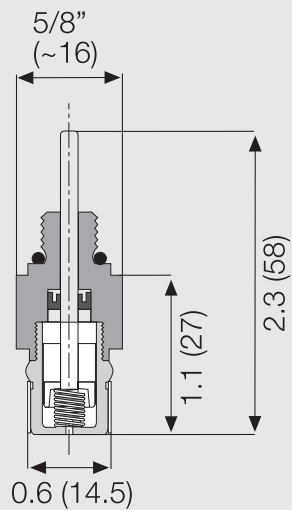
### Specifications

Max. operating pressure	7 PSI (500 mbar)	
Connection	G 1/8" ISO 228	
Temperature range	-40 °F to +150 °F (-40 °C to +65 °C)	
Materials	Brass housing NBR based rubber	

**Dimensions inch (mm)**  
**CPI 400 and Brass Adapter/Plunger**



**Dimensions inch (mm)**  
**Visual Indicator**



## Valve position indication

### CPI 400 Valve Switch Visual Indicator (VI)



#### Product Description and Order Numbers

Type	Order No.
CPI 400 valve switch	224-253A
Visual Indicator	217-665

#### Accessories/Replacement Parts

Type	Order No.
Clear plastic cover with mounting screws	240-837
120Vac neon lights (orange & green)	229-338
24Vdc neon lights (red & green)	248-183
1/2"NPT conduit adapter (PG 11)	220-566
Brass adapter (standard)	224-417
Brass adapter (Ni plated)	224-417B

We reserve the right to make any changes in the interest of technical progress.

**Karl Dungs Inc.**  
524 Apollo Drive, Suite 10  
Lino Lakes, MN 55014, U.S.A.  
Phone 651 792-8912  
Fax 651 792-8919  
e-mail [info@karldungsusa.com](mailto:info@karldungsusa.com)  
Internet <http://www.dungs.com/usa/>

**Karl Dungs GmbH & Co. KG**  
P.O. Box 12 29  
D-73602 Schorndorf, Germany  
Phone +49 (0)7181-804-0  
Fax +49 (0)7181-804-166  
e-mail [info@dungs.com](mailto:info@dungs.com)  
Internet <http://www.dungs.com>