

ProMax offers a wide range of 500+ professional Industrial Grade Switches for consumer, industrial, medical products and generic applications. These switches are specifically manufactured to offer best in class power ratings, build quality, and operation life. Designed to work in harsh conditions and environments.

Switches are available with inbuilt LED for status indication. Perfect for offering a neat user interface and clear usage.

ProMax Switches are available in multiple options - sizes, colour indication, customisable symbols, power ratings, button head types, metal finishes, etc

Features

- Available Sizes: 8mm, 10mm, 12mm, 16mm, 19mm, 22mm, 30mm, 42mm
- Switch Available in Resetting and Non Resetting Modes
- LED Operating Voltage: 3V, 5V, 12V, 24V, 240V AC/DC
- Max Load Switching Voltages: 300V AC, 100V DC
- Max Load Switching Current: 3A to 15A (depending on model)
- Ingression Protection Rating: IP65 Dust and Waterproof
- Simple and Easy Panel Mounting. Offers professional finish after mounting
- Low Electrical Noise during switching
- Illuminations Symbol: Ring or Power Symbol
- Multiple switch head option: Raised, Flat and Lowered
- Customisation available based on customer requirement
- Switch Operating Cycles MTBF: 1,00,000 cycles
- LED Minimum Life: 50,000 working hours



Applications

- Perfect Replacement for traditional switches where switch status is to be indicated to users
- Automobile Dashboards and Panels. Consumer & Medical Products
- Industrial Control Panels. Elevator, Lift, Crane Controls
- Generic System start/stop applications. Emergency Stop Switches
- Suitable for generic load switch and switch status indication

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1. Technical Specifications

Operating Temperature range	-20°C to +55°C
Storage Temperature	-40°C to +85°C
Max Load Switching Voltage	300V AC / 60V DC
Max Load Switching Current	3A (5A & 15A available upon order)
LED Operating Voltage	Available in 3V/5V/6V/12V/24V/240V
Max LED Current	20mA
Thread sizes	12-45mm
Pre-travel	Approx 1.5
Contact travel	Approx 2.5
Operating force	max. 5N
Mechanical life	100.000 cycles
Frequency max.	100/min
Voltage range	9VDC - 32VDC
Mechanical Life	>100,000 operations
Operations Electrical Life	>50,000 working hours
Operations Motion Tolerance	< 30 Operations/Minute
Degree of Protection	IP65
Supported Mounting Panel Thickness	0.5mm to 5mm
Mounting Torque	4 to 15 N-m
Maximum Insulation Voltage	1500 VAC 60Hz, 10mA, 1 Minute Insulation
Resistance	100MΩ @500 VDC, 100mA, 1 minute
Contact Resistance	<= 50 mΩ

2. Ordering Information

PPS	XX	VVV	C	S	O -	1	1	S	S	B	L
ProMax Push Switch	Size	LED Voltage	LED Color	Symbol	Operation Type	NC	NO	Head	Body Color	Contact Material	Terminal Style

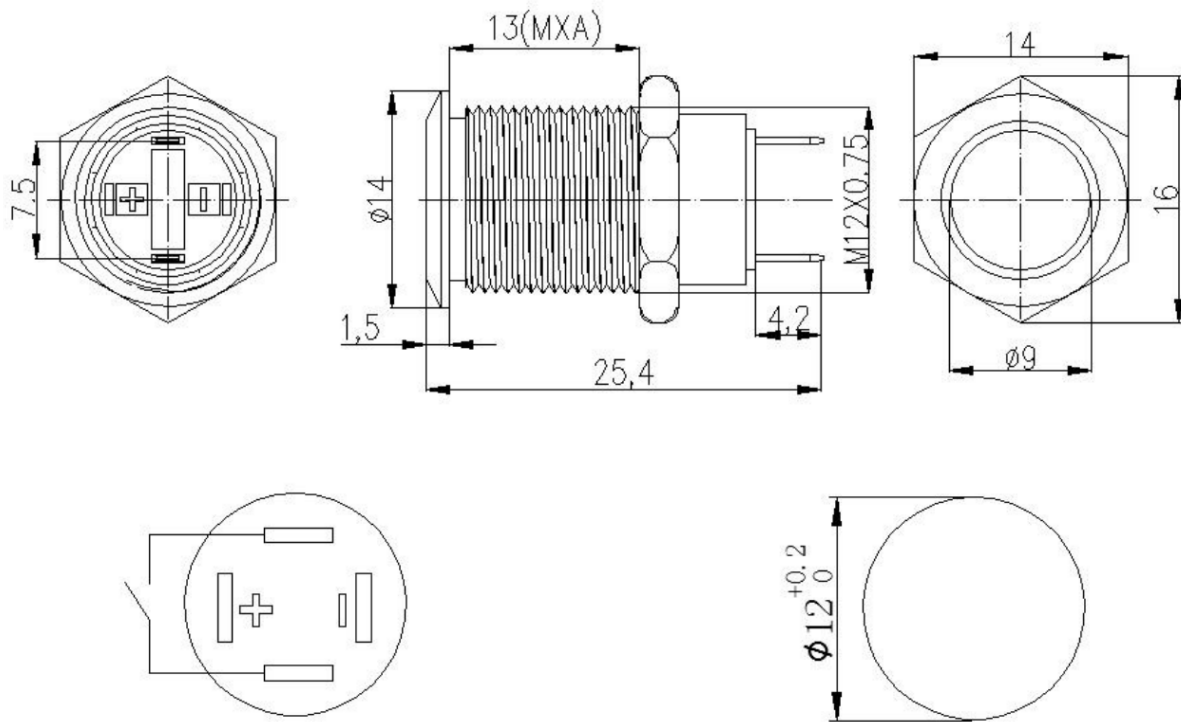
Ex. Part No: **PPS16006GPL-11FSNP** is ProMax Push Switch 16mm with 6V LED Illumination, Power Symbol, Latching Operation with 1NO, 1NC, Flat Head, Stainless Steel Silver Body, Nickel plated, with crimp pins.

Above Part Code	Description and Possible Values	Possible Values
ProMax Push Switch	Identifies part as ProMax's Push Switch	PPS
Size	Indicates the Mounting Thread Diameter. Hole Diameter for Panel Mounting.	12 = 12mm 16 = 16mm 22 = 22mm 30 = 30mm 42 = 42mm
LED Voltage	Operating Voltage of LED	006 = 3 to 6V DC 012 = 8 to 12V DC 024 = 19 to 24V DC 240 = 220 to 240V AC 000 = No LED. Not Applicable
LED Color	Illumination Color of the Switch LED	G = Green R = Red B = Blue Y = Yellow W = White A = RGB N = No LED. Not Applicable
Symbol	Laser Cut Symbol on the Switch Head	P = Power Symbol R = Ring Symbol B = Both Power & Ring Symbol C = Customised N = No Symbol. Not Applicable
Operating	Switch Operation Type	M = Momentary. Resetting Switch. Push to turn On.

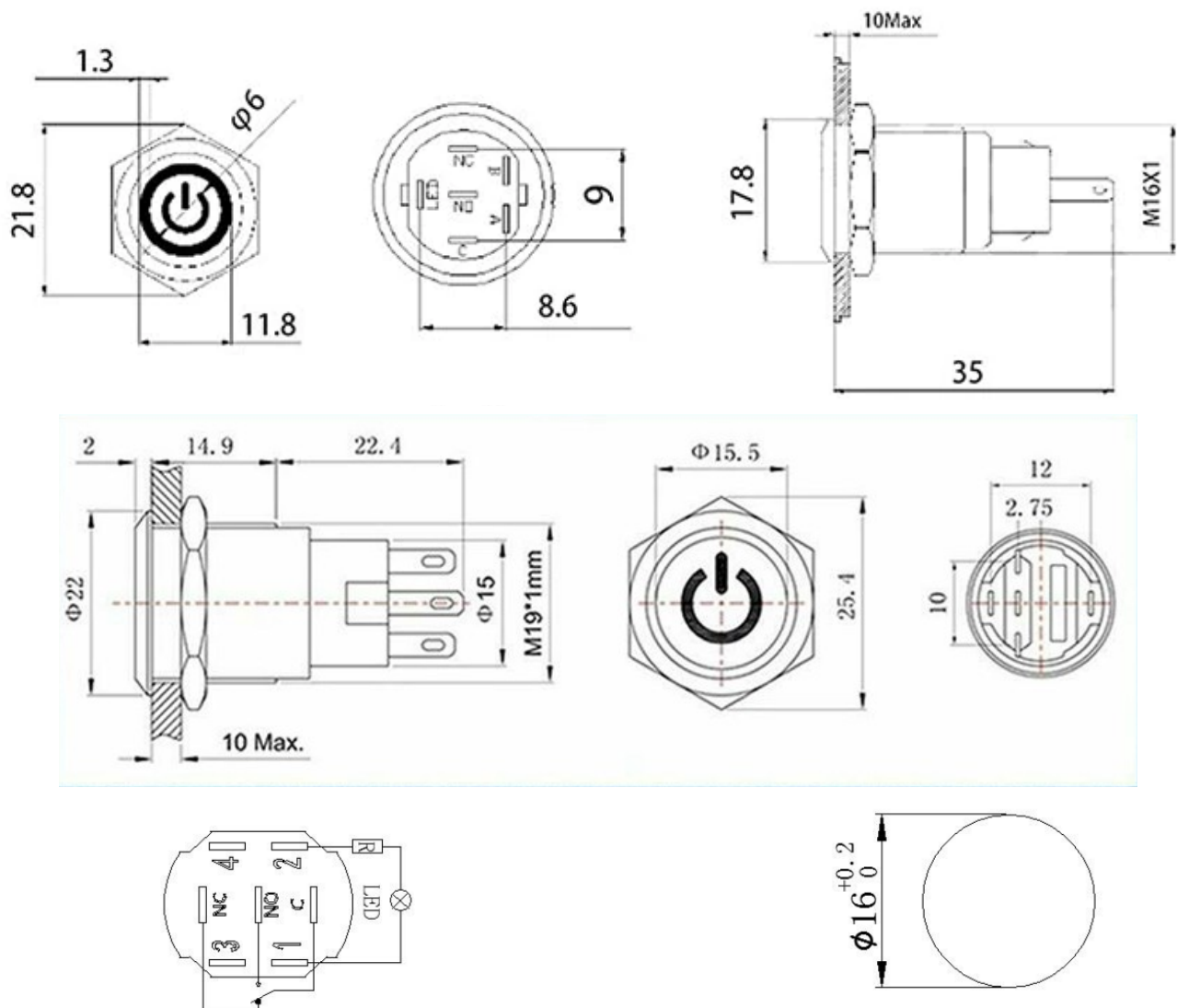
Type		Release to turn Off L = Latching. Self Locking Switch. Push to On, push to Off
NC	No of NC Terminals	0 = No NC Terminals 1 = 1 NC Terminal 2 = 2 NC Terminals
NO	No of NO Terminals	0 = No NO Terminals 1 = 1 NO Terminal 2 = 2 NO Terminals
Head	Switch Head Type	F = Flat Head in OFF State R = Raised Head in OFF State L = Recessed Head in OFF State M = Mushroom Head in OFF State
Body Color	Primary Material and Color of outer body	S = Stainless Steel, Silver B = Stainless Steel, Black
Contact Material	The Material of internal Contacts. Determines Swith Load Rating and Performance	
Pin Terminal Style	Indicates the termination style of the pin	C = Crimp Terminal. Solder Tab. P = Screw Terminal W = Wire

3. Switch Physical Dimensions

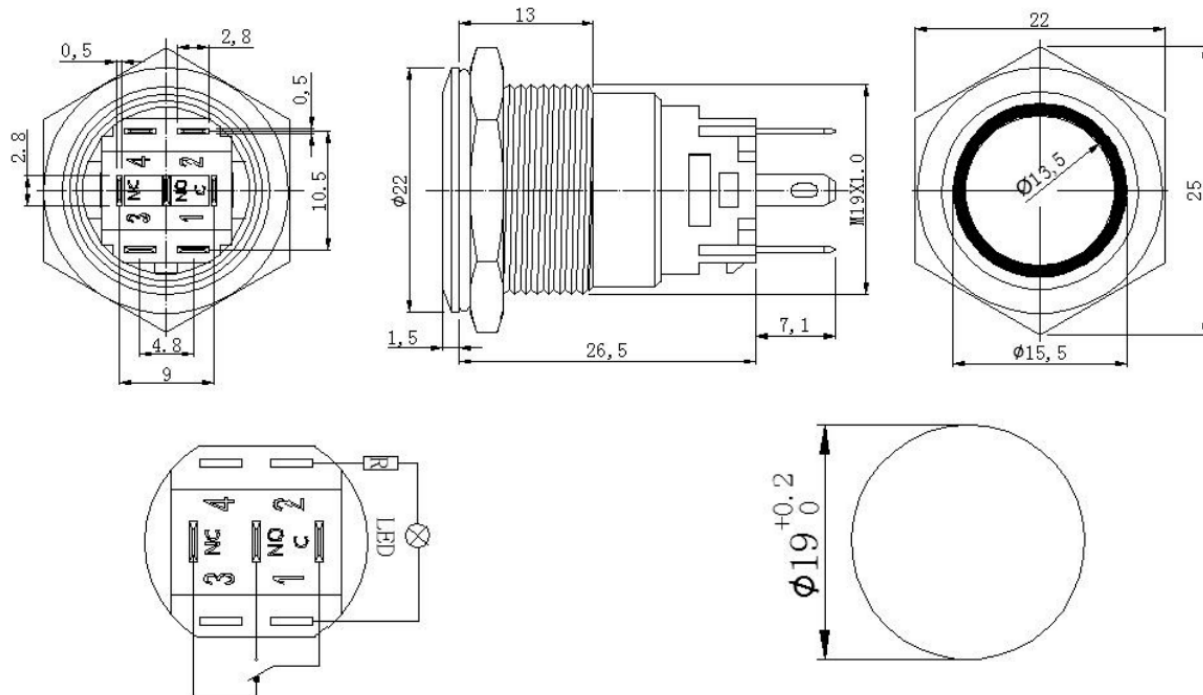
3.1. ProMax PPS12 Switch Series Dimensions



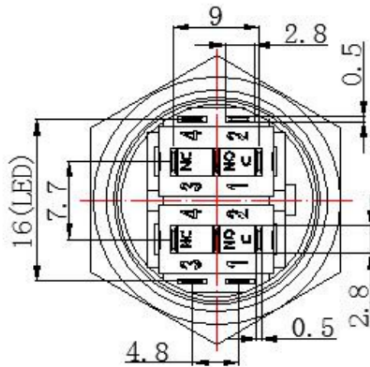
3.2. PPS16 Switch Series Dimensions



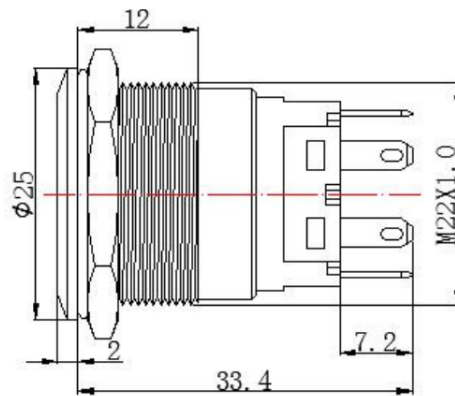
3.3. PPS19 Switch Series Dimensions



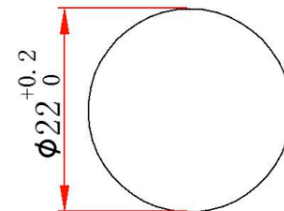
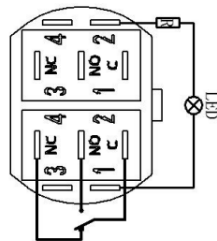
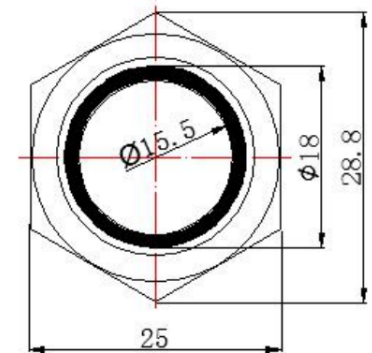
3.4. PPS22 Switch Series Dimensions



电气简图




安装孔图



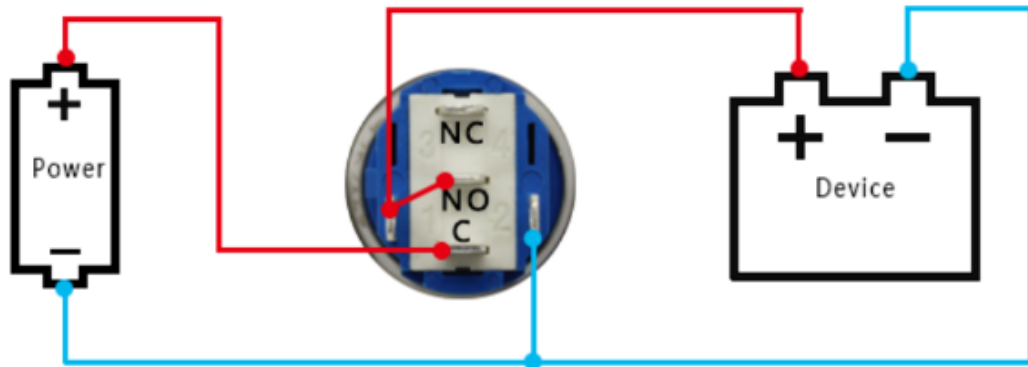
PPS16-XXX-X-PX11FXXP Dimensions

4. Pinout

 <p>Backside View</p>	Pin Marking	Description
	LED	Power Supply for LED Illumination
	LED	Power Supply for LED Illumination
	C	Switch Common Contact
	NO	Switch Normally Open Contact. This pin is internally connected to Common Contact only when is Open
	NO	Switch Normally Open Contact. This pin is internally connected to Common Contact only when is Open

5. Application Diagram

Wiring diagram1:

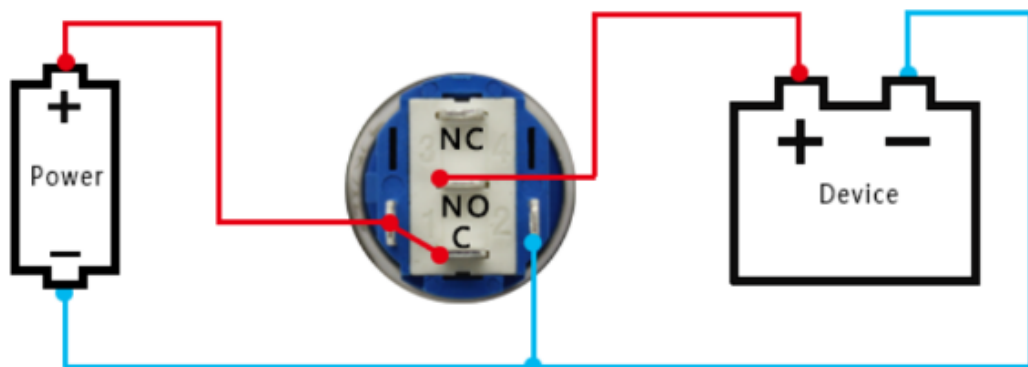


Wiring diagram1:

Light: NOT Working, Switch: Opened

When you **Press** the button, Light: Working, Switch: Closed

Wiring diagram2:

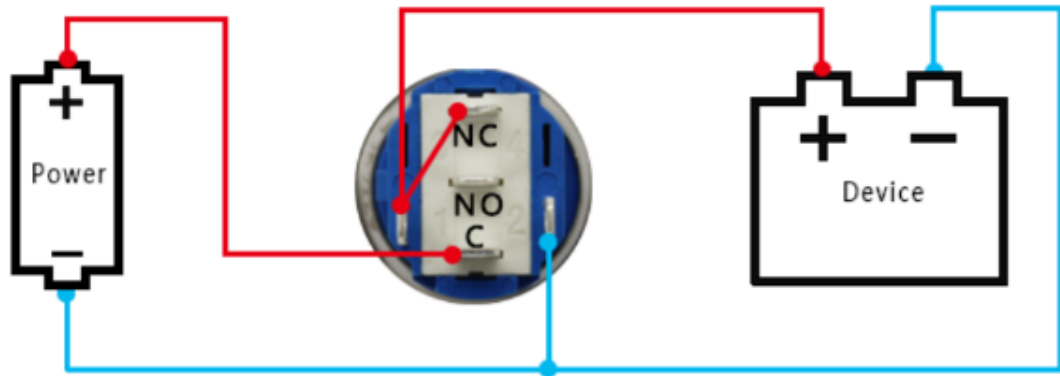


Wiring diagram2:

Light: Working, Switch: Opened

When you **Press** the button, Light: Working, Switch: Closed

Wiring diagram3:

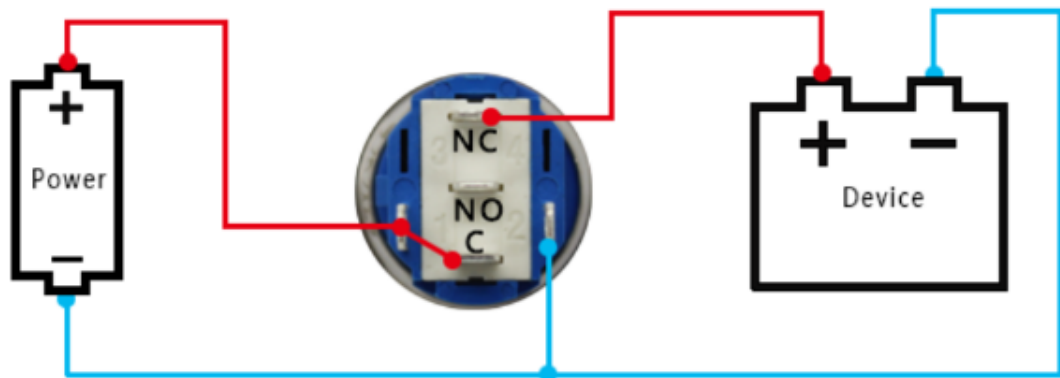


Wiring diagram3:

Light: Working, Switch: Closed.

When you **Press** the button, Light: Not Working, Switch: Opened

Wiring diagram4:

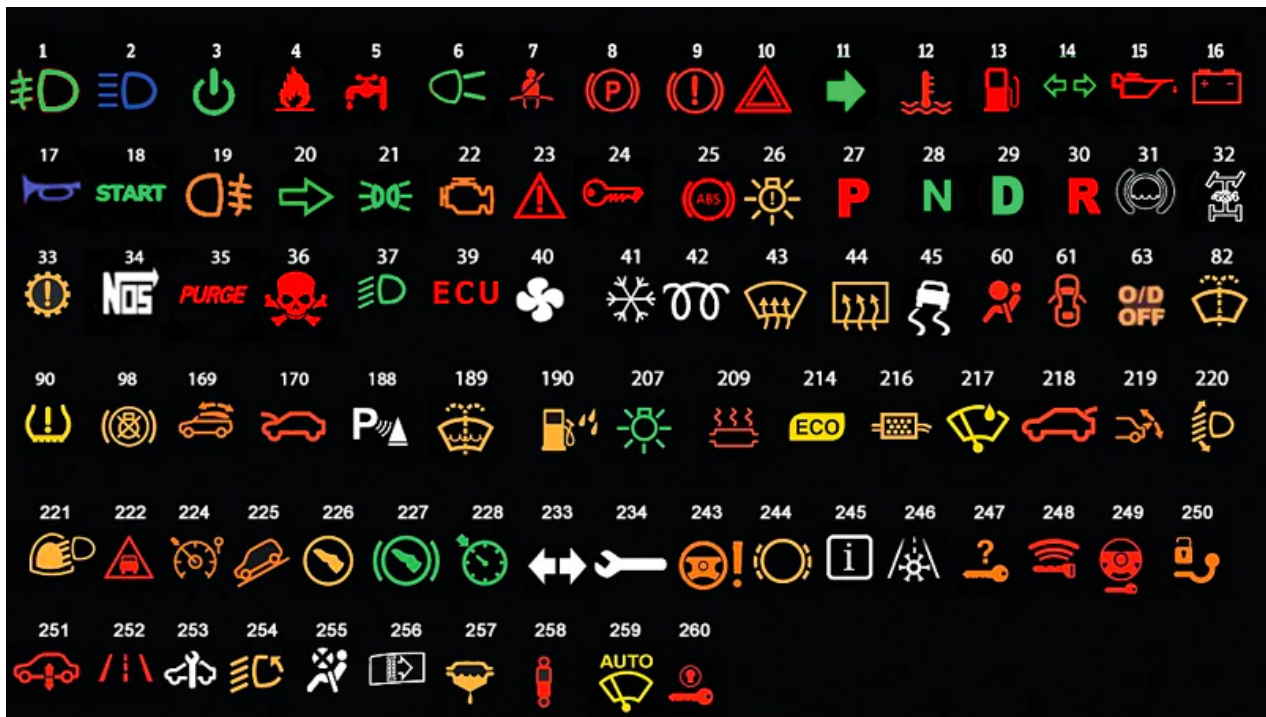


Wiring diagram4:

Light: Working, Switch: Closed

When you **Press** the button, Light: Working, Switch: Opened

6. Symbol Customisation Options



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