

SB 300 FLAME PROOF, POSITION MONITORING SWITCH BOX AS PER IS/IEC 60079-1:2014 & WEATHER PROOF IP-67 AS PER IS/IEC 60529-2001 PESO's IDENTIFICATION NUMBER-P507314/1

DATA SHEET
SB-300

Rigid and compact design constructed from aluminum alloy
Die-casting capable of operating even in hazardous Conditions

SB-300 SERIES FLP IIC / IP 67 CERTIFIED BY PESO

This series is designed suitable for valve and actuators in hazardous area application, having compact but robust construction conforms to IS/IEC 60079 PART-1 2014 also suitable in Zone 1 and 2 and ingress protection IP67.

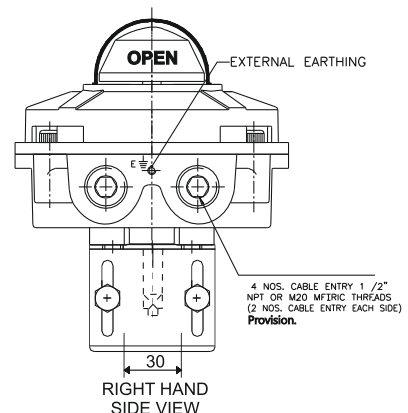
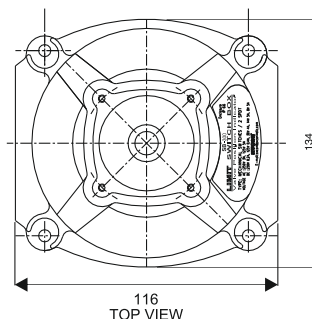
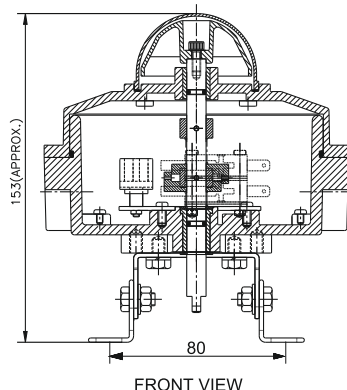
Standard aluminum housing provides reliable explosion proof performance.



SPECIFICATION	Standard	Option
Enclosure	Explosion proof Ex db IIC T6 Gb, IP67, O-ring sealed Weather Proof as per IS/IEC-60529 - 2001	
Outside coating	Epoxy-Polyester outside against corrosion	Nylon Coating Special color Coating
Ambient temperature	-20°C~+80°C	Higher (~+100°C) and lower (~-40°C) temperature
Cable entries	1/2" NPT(F) Threads 2 Nos.	
Terminal block	12 Nos of terminal Block 10 for switches, 2 Nos for solenoid valve power (Model Depended).	
Position indicator	Dome type 0°~90°	Others (3 Way L-Port, T-Port)
Mounting bracket	Steel powder coated, Compatible to VDI/VDE 3845, NAMUR.	
Switches (Sensors)	2-SPDT mechanical switch SB-300-L2- 2 Nos SPDT mechanical switch. SB-300-L4- 4 Nos SPDT mechanical switch. SB-300-P2- 2 Nos Proximity Sensors. SB-300-P4- 4 Nos Proximity Sensors. or any Others.	DPDT Switches Proximity sensors (P & F), Magnetic sensors, Position transmitter

DIMENSION

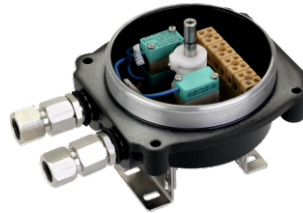
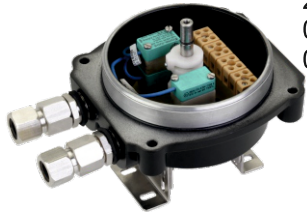
SB 300 Series FLP and WP Switch Box.



SB-300L2/SB-300-L4

Mechanical SPDT Switches

Rating : 10A 125 or 250 V AC or
24V AC
0.5A 24 to 125 V DC
0.25A 125 to 250 V DC



Certification :

Flameproof Enclosure to
IS/IEC 60079-1:2014

for Group IIC, Ex db IIC T6 Gb.

Test & Certified by : KLPL, Boisar.

Test Report : KLPL/Ex/18-095X

Date-27.10.2018

Revalidated on

Date-30.12.2020

BIS Licence No. : CM/L-0007083570

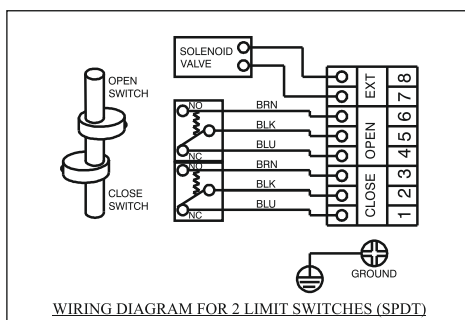
PESO No. : P507314/1

Proximity Sensor SB-300-P2/SB-300-P4

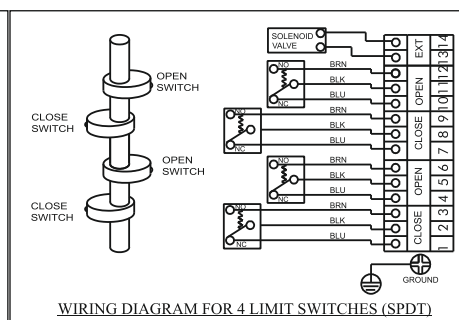
Proximity or inductive Sensor (2 Nos)

Voltage Rating : 10 to 60 V DC or 8 V DC

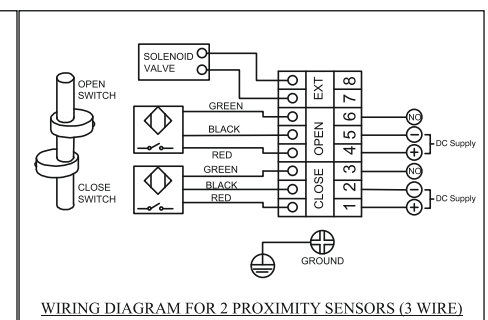
Sensing Distance : 2 MM



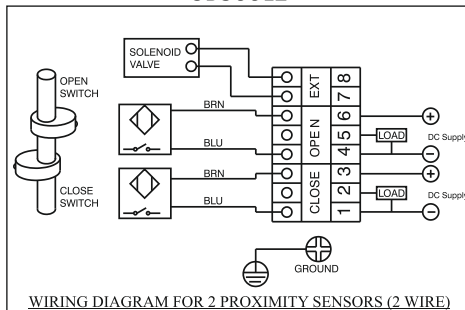
SB300L2



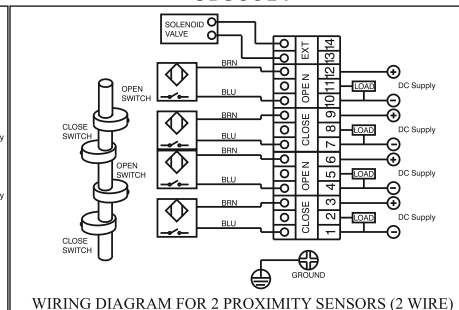
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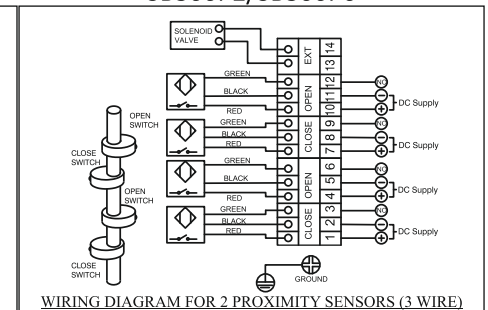
SB300P2/SB300P6



SB300P8



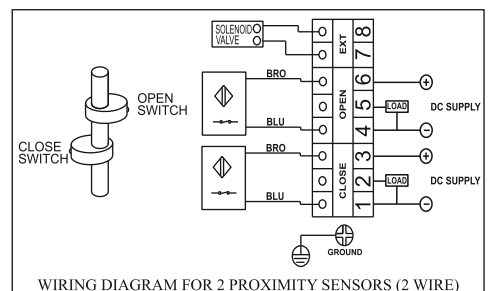
SB30088



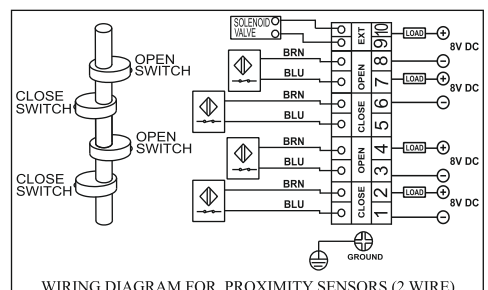
SB300P22/SB300P66

CONSTRUCTION MATERIAL

Housing	Low copper aluminium pressure die-casted
Coating	Epoxy-Polyester inside/outside
Sealing	NBR O-rings on each interface (Dome indicator, Lower/Upper housing, Shaft)
Dome	Poly-carbonate
Bushings	Bronze
Shaft	AISI304 Stainless Steel
Earth Lug	Stainless Steel
Bolts	All in stainless steel
Mounting Bracket	Steel Powder coated, compatible to VDI / VDE 3845, NAMUR.



SB300P4



SB300P44

TYPES OF SWITCH BOXES (SB-300 SERIES)

Model NO. Voltage	Type of Switches	Approval	Protection	Certificate No.	Testing Standard
SB300 L2 230V/110V AC or 24V DC	2-Nos. Limit Switches (Cherry/Honeywell)	KLPL	FLP-IIC & IP-67	KLPL/Ex/18-095X DT.27.10.2018 Revalidated on DT.30.12.2020	IS/IEC 60079-1:2014
SB300 L4 230V/110 V AC or 24 V DC	4-Nos. Limit Switches (Cherry/Honeywell)	KLPL	FLP-IIC & IP-67	KLPL/Ex/18-095X DT.27.10.2018 Revalidated on DT.30.12.2020	IS/IEC 60079-1:2014
SB300 P2 24V DC (No Barrier)	2-Nos. Avcon Proximity Switches or Inductive Switches (NPN/PNP)	KLPL	FLP-IIC & IP-67	KLPL/Ex/18-095X DT.27.10.2018 Revalidated on DT.30.12.2020	IS/IEC 60079-1:2014
SB300 P22 24V DC (No Barrier)	4-Nos. Avcon Proximity Switches or Inductive Switches (NPN/PNP)	KLPL	FLP-IIC & IP-67	KLPL/Ex/18-095X DT.27.10.2018 Revalidated on DT.30.12.2020	IS/IEC 60079-1:2014
SB300 P4 0 to 8V DC (Barrier Required)	2-Nos. P&F-NJ2V3N (2-Wire Namur 2mm Stroke Proximity or Inductive Switches) (Intrinsic Safe)	KLPL	FLP-IIC & IP-67	KLPL/Ex/18-095X DT.27.10.2018 Revalidated on DT.30.12.2020	IS/IEC 60079-1:2014
SB300 P44 0 to 8V DC (Barrier Required)	4-Nos. P&F-NJ2V3N (2-Wire Namur 2mm Stroke Proximity or Inductive Switches) (Intrinsic Safe)	KLPL	FLP-IIC & IP-67	KLPL/Ex/18-095X DT.27.10.2018 Revalidated on DT.30.12.2020	IS/IEC 60079-1:2014
SB300 P6 10 to 30V DC (No Barrier)	2-Nos. P&F-NBB3V3E2 (3-Wire Non-Namur 2mm Stroke Proximity or Inductive Switches)	KLPL	FLP-IIC & IP-67	KLPL/Ex/18-095X DT.27.10.2018 Revalidated on DT.30.12.2020	IS/IEC 60079-1:2014
SB300 P66 10 to 30V DC (No Barrier)	4-Nos. P&F-NBB2V3E2 (3-Wire Non-Namur 2mm Stroke Proximity or Inductive Switches)	KLPL	FLP-IIC & IP-67	KLPL/Ex/18-095X DT.27.10.2018 Revalidated on DT.30.12.2020	IS/IEC 60079-1:2014
SB300 P8 5 to 60V DC (No Barrier)	2-Nos. P&F-NBB3V3Z4 (2-Wire Non-Namur 3mm Stroke Proximity or Inductive Switches)	KLPL	FLP-IIC & IP-67	KLPL/Ex/18-095X DT.27.10.2018 Revalidated on DT.30.12.2020	IS/IEC 60079-1:2014
SB 300 P88 5 to 60V DC (No Barrier)	4-Nos. P&F-NBB3V3Z4 (2-Wire Non-Namur 3mm Stroke Proximity or Inductive Switches)	KLPL	FLP-IIC & IP-67	KLPL/Ex/18-095X DT.27.10.2018 Revalidated on DT.30.12.2020	IS/IEC 60079-1:2014

Ed.SB-300-Dec-2025

(USE WITH BARRIER TYPE KFD2-SL-2EX1LK 1270 of P&F Make - NOT AVCON SCOPE OF SUPPLY)

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Manufactured by:

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