PA Ventiler AB
EN DEL AV BEIJERTECH

ACTREG
POWER IN AUTOMATION

LIMIT SWITCH BOX

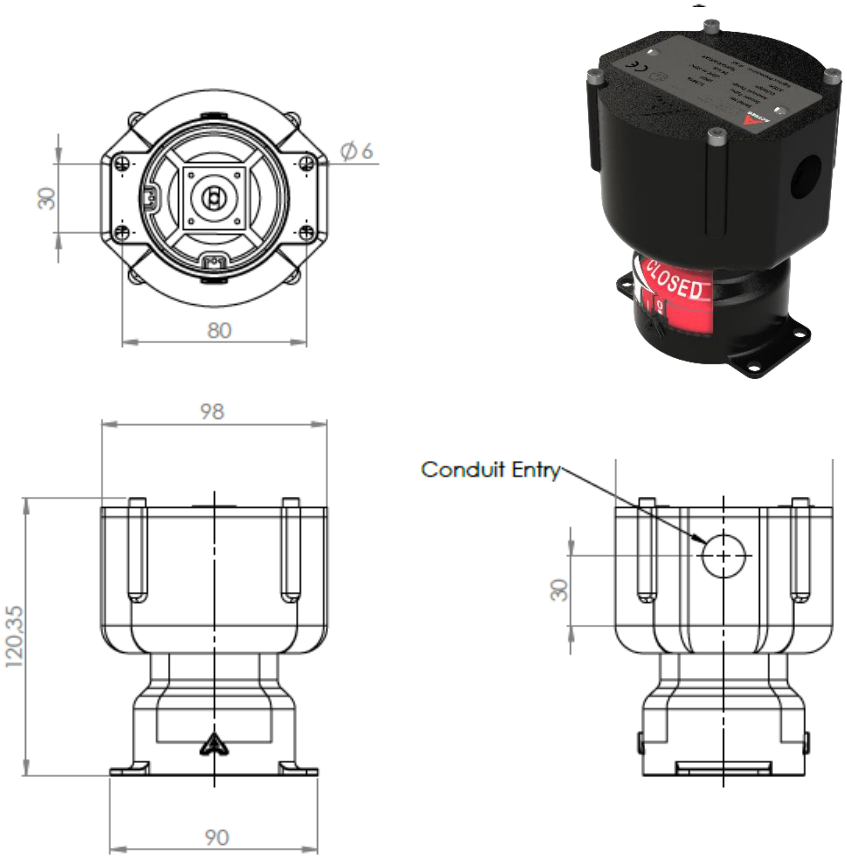
PRODUCT DATA SHEET



Manufacturing program:

CE Ex II 2 G D

DIMENSIONS



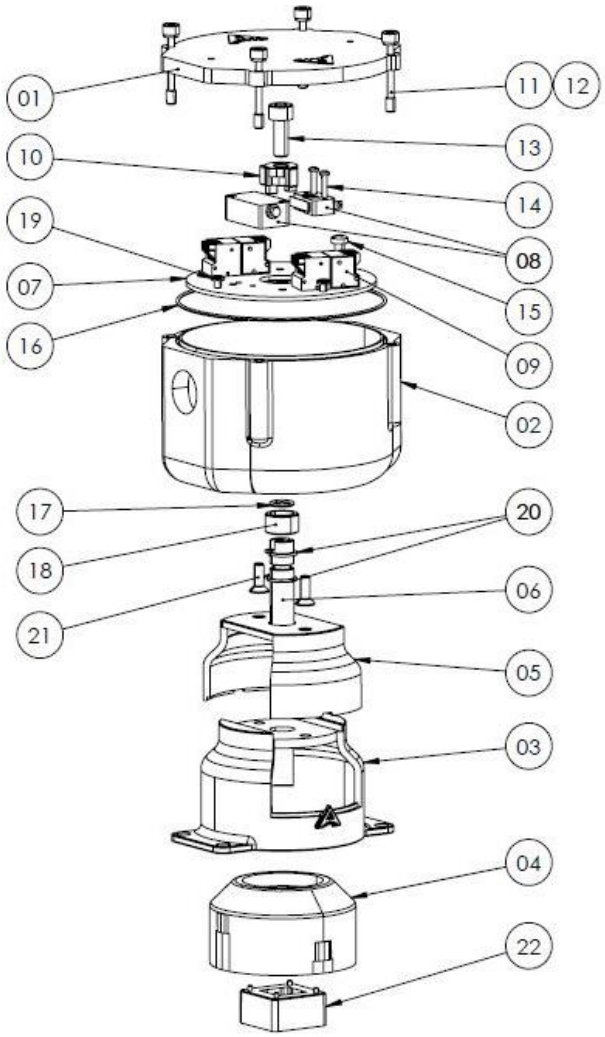
GENERAL CHARACTERISTICS

Conduit Size Options	(2 x) M20x1,5 / 1/2“ NPT / 3/4” NPT
Sensors Options	(2 x) SPDT micro switch. Honeywell Ref: QM50-E10B01
	(2 x) Inductive sensors. Pepperl & Fuchs Ref: NBB2-V3-Z4L (2 Wires)
	(2 x) Inductive sensors. Pepperl & Fuchs Ref: NBB2-V3-E2 (3 Wires)
	(2 x) Inductive sensors ATEX Ex ia. Pepperl & Fuchs Ref: NCB2-V3-N0 (2 wires)
Amperage - Voltage	5 A – 125/250 Vac / 5 A – 48 Vdc (for SPDT type sensors)
	3,7 … 30 Vdc (for inductive sensors NBB2-V3-Z4L)
	10 … 30 Vdc (for inductive sensors NBB2-V3-E2)
	≤1 mA / ≥ 3 mA - 8,2 V (for Ex ia type sensors NCB2-V3-N0)
Operating Temperature	-25ºC to 125ºC (-13ºF to 257ºF) for QM50-E10B01
	-25ºC to 70ºC (-13ºF to 158ºF) for NBB2-V3-Z4L
	-25ºC to 70ºC (-13ºF to 158ºF) for NBB2-V3-E2
	-25ºC to 100ºC (-13ºF to 212ºF) for NCB2-V3-N0

BOM

Item	Description	Material
1	Top cover	Aluminium
2	Body	Aluminium
3	Bracket	Aluminium
4	Position indicator	PA66+30%GF
5	Window cover	Makrolon
6	Shaft	AISI304
7	Terminal plate	PA66+30%GF
8	Sensors *	-
9	Terminal block	PA66+30%GF
10	Position detector	NBR
11	Non loose screw	NBR
12	Washer	A2-70
13	Shaft screw	A2-70
14	Sensor screw *	A2-70
15	Ground screw	A2-70
16	Cover O-ring	NBR
17	Shaft O-ring	NBR
18	Lubricated bearing	Bronze + PTFE
19	Plate screw	A2-70
20	Retaining ring	A2-70 + Nickel plated
21	Union screw	A2-70
22	Square adapter	PA66+30%GF

(*) Depends on different configurations



POSITION INDICATOR COLORS

Green and Red



Yellow and Red



Yellow and Black



Yellow and Blue



ORIENTATION

The limit switch box is orientable, it can turn 90 degrees.





LIMIT SWITCH BOX CODIFICATION

LSB PI-HP - M - GR - 1 - A

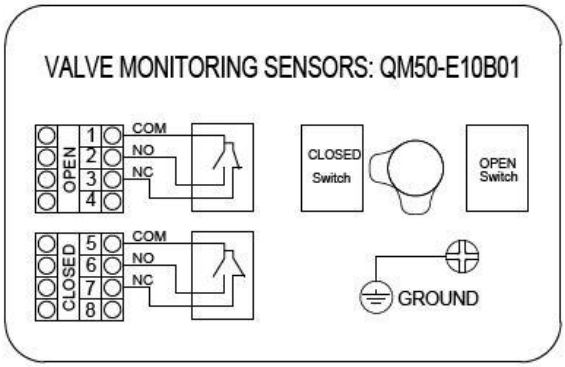
SENSOR	
M	2 x Mechanical SPDT micro switch
I	2 x Inductive sensor – P&F model NBB2-V3-Z4L; Normally open (2 wires)
N	2 x Inductive NAMUR sensor – P&F model NCB2-V3-N0; Normally close; ATEX Ex ia; (2 wires)
O	2 x Inductive sensor – P&F model NBB2-V3-E2 Normally open; PNP (3 wires)

POSITION INDICATOR	
GR	GREEN (Open) – RED (Closed)
YR	YELLOW (Open) – RED (Closed)
YBK	YELLOW (Open) – BLACK (Closed)
YBU	YELLOW (Open) – BLUE (Closed)
-	Without Position Indicator

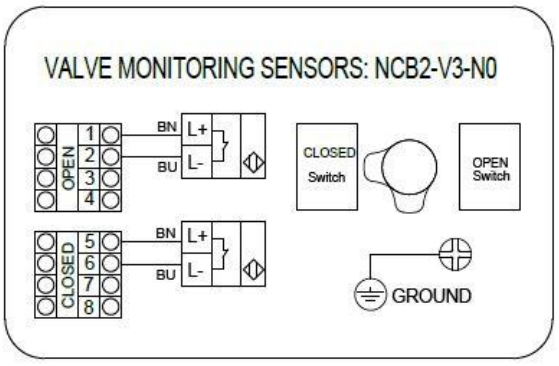
CONDUIT ENTRIES	
1	2 x M20 x 1,5
2	2 x 1/2” NPT
3	2 x 3/4” NPT

POSITION INDICATOR ADAPTER	
A	Square Adapter (27 to 14mm)
-	Without Adapter

MECHANICAL SENSOR

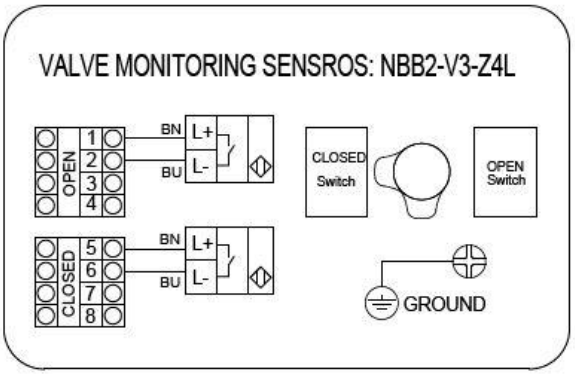


INDUCTIVE SENSOR NAMUR

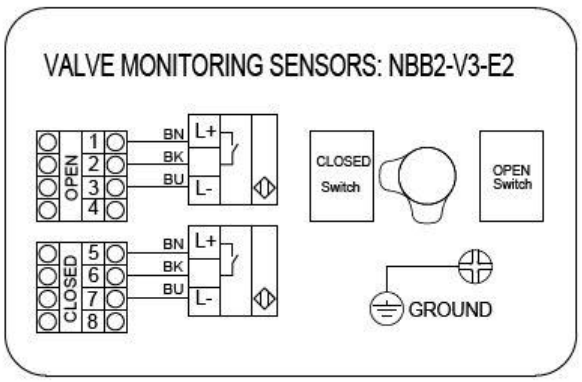


INDUCTIVE SENSOR

2 Wires Sensor



3 Wires Sensor



NAMEPLATE

