VLS: 11: 14

VERSATILE **LIMITSWITCH**

PROFIBUS® DEVICENET® CANOPEN® ASI®

IP68 SIL2

MRI













Engineering For The Future



ROTEX LAUNCHES, THE NEW HIGHLY RELIABLE, ADVANCED RANGE OF VALVE POSITION LIMIT

DXLW





WEATHER PROOF

FEATURES

- Aluminium Diecast, Housing and cover with powder coating, for superior corrosion resistance
- Shatterproof Polycarbonate Dome
- Easily settable colour coded cam
- The locked serrated cams, ensures the secured settings against any vibration
- A special PCB, eliminates all the wiring from the switch element to the terminals. Complete protection against short circuit.
- Three cable entries are provided as a standard
- Cable entries M20X1.5, 1/2" NPT
- Complies to NAMUR Mounting standards
- Possible Solenoid termination inside the switch box
- Additional mounting holes are threaded as per the **UNC** series
- Range of Mounting Accessories having the compatibility with the various Actuator manufacturers
- A stainless steel bracket is available as an option
- The switch box confirms to the UL508, UL file no. E249752
- Temperature range -20 °C to +80 °C On request -40 °C to +80 °C, -20 °C to +120 °C, -60 °C to +80 °C
- IP 67: Water, Rain and Dust Proof
- IP 68: Upto 100m on request

INDICATOR

The two piece unique indicator, ensures a life long visibility





















Standard Red and Yellow



Optional Red and Green



SWITCH BOXES, TO ENHANCE THE PERFORMANCE OF THE VALVE AUTOMATION SYSTEMS

DNLF

EXPLOSION PROOF



NEMA 4, 4X, 7 & 9 CLASS I, GROUP C & D, CLASS II, GROUP E, F & G, DIVISION 1 & 2





EC94/9 Ex d, IIC, T6 EN/IS/IEC 60079-0, EN/IS/IEC 60079-1



FEATURES

- Aluminium Diecast, with powder coating, for superior corrosion resistance
- Shatterproof Polycarbonate Dome
- Easily settable colour coded cam
- The locked serrated cams, ensure the secured settings against any vibration
- Switch Box confirms to Ex d IIC, T6 Highest level of safety
- Cable Entry M20, 1/2" NPT or 3/4" NPT A special PCB, eliminates all the wiring from the switch element to the terminals. Complete protection against short circuit.
- All fasteners in stainless steel
- Additional mounting holes are threaded as per the **UNC** series
- ATEX, certified by Baseefa United Kingdom Certification no. Baseefa09ATEX0126
- UL Certified confirms to file no. UL1203 and UL508, File no. 246615
- Temperature range -20 °C to +80 °C On request -40 °C to +80 °C, -60 °C to +80 °C, -20 °C to +120 °C
- Cable entry Dual cable entry Optional 4 cable entry
- IP 67: Water, Rain and Dust Proof
- IP 68 : Upto 100m on request

DOME

The Dome is an unique "two piece" arrangement. The Black transparent plastic is the integral part of the dome, ensuring an extra long life









3 Way dome Only 90° segment is transparent rest all 270° is black

VERSATILE LIMITSWITCH

SWITCH BOXES TO ENHANCE THE PERFORMANCE OF VALVE AUTOMATION SYSTEMS

DNLF



NEMA 4, 4X, 7 & 9 CLASS I, GROUP C & D, CLASS II, GROUP E, F & G, DIVISION 1 & 2





EC94/9 Ex d, IIC, T6 EN/IS/IEC 60079-0, EN/IS/IEC 60079-1



EXPLOSION PROOF

FEATURES

- Stainless Steel CF8M housing
- Shatterproof Polycarbonate Dome
- · Easily settable colour coded cam
- The locked Serrated cams, ensures the secured settings against any vibration
- The switch box confirms to Ex d IIC, T6 Highest level of safety
- Cable entry M20, 1/2" NPT or 3/4" NPT
- A special PCB, eliminates all the wiring from the switch element to the terminals. Complete protection against short circuit.
- · All fasteners in stainless steel
- Additional mounting hole is threaded as per the UNC series
- ATEX, certified by Baseefa United Kingdom Certification no. Baseefa09ATEX0126
- UL Certified confirms to file no. UI1203 and UL508, File no. 246615
- Temperature range -20 °C to +80 °C
 On request -40 °C to +80 °C, -60 °C to +80 °C, -20 °C to +120 °C
- Cable entry
 Dual cable entry
 Optional 4 cable entry
- · Stainless steel bracket is recommended
- IP 67 : Water, Rain and Dust Proof
- IP 68: Upto 100m on request

60000

DOME

Unique "two piece" dome arrangement. The black plastic makes the transparent dome an integral part. This ensure an extra long life





Standard dome



3 Way dome
Only 90° segment is transparent rest all 270° is black





ROTEX LAUNCHES, THE NEW HIGHLY RELIABLE, ADVANCED RANGE OF VALVE POSITION LIMIT

DXLW STAINLESS STEEL



WEATHER PROOF

FEATURES

- Stainless steel CF8M housing for superior corrosion
- Shatterproof Polycarbonate Dome
- Easily settable colour coded cam
- The locked serrated cams, ensures the secured settings against any vibration
- A special PCB, eliminates all the wiring from the switch element to the terminals. Complete protection against short circuit.
- Three cable entries are provided as a standard
- Cable entries M20X1.5, 1/2" NPT
- Complies to NAMUR Mounting standards
- Possible Solenoid termination inside the switch box
- Additional mounting holes are threaded as per the **UNC** series
- Range of Mounting Accessories having the compatibility with the various Actuator manufacturers available
- A stainless steel bracket is recommended
- Temperature range -20 °C to +80 °C On request -40 °C to +80 °C, -20 °C to +120 °C, -60 °C to +80 °C
- IP 67: Water, Rain and Dust Proof
- IP 68: Upto 100m on request



DOME

Unique "two piece" dome arrangement. The black plastic makes the transparent dome an integral part. This ensure an extra long life







Standard dome



3 Way dome Only 90° segment is transparent rest all 270° is black





ROTEX LAUNCHES, THE NEW HIGHLY RELIABLE, ADVANCED RANGE OF VALVE POSITION LIMIT

DXLW



WEATHER PROOF

- Engineering plastic, with High impact strength excellent corrosion resistance
- Shatterproof Polycarbonate Dome
- Easily settable colour coded cam
- The locked serrated cams, ensures the secured settings against any vibration
- A special PCB, eliminates all the wiring from the switch element to the terminals. Complete protection against short circuit.
- · Three cable entries are provided as a standard
- Cable entries M20X1.5, 1/2" NPT
- · Complies to NAMUR Mounting standards
- Possible Solenoid termination inside the switch box
- Additional mounting holes are threaded as per the UNC series
- Range of Mounting Accessories having the compatibility with the various Actuator manufacturers available
- · A stainless steel bracket is available as an option
- Temperature range -20 °C to +80 °C
 On request -40 °C to +80 °C, -20 °C to +120 °C, -60 °C to +80 °C
- IP 67: Water, Rain and Dust Proof
- IP 68 : Upto 100m on request









B1, M1, B21, M21

MOUNTING BRACKET





FEATURES

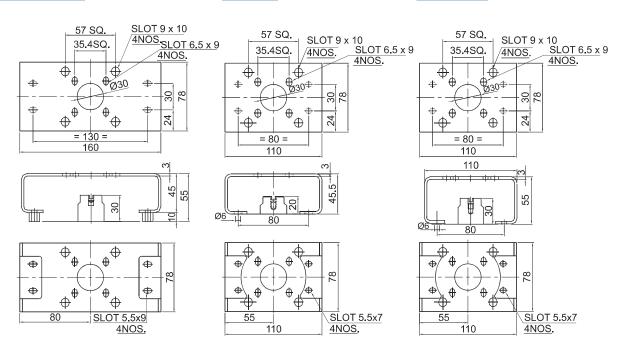
- As per ISO 5211
- 4 Basic varieties of bracket for entire range of Actuators
 - 80 X 30 Height 20, 30
 - 130 X 30 Height 20, 30, 40, 50
- · Two different material
 - Mild steel, Formed, Powder coated for general purpose use
 - SS316, formed for high corrosion resistance Grade of the material to be chosen on the given application (Consult Rotex, if required)
- given application (Consult Rotex, if required)

 Brackets with unique slots along X and Y adjustment for perfect alignment
- For Stainless Steel Limitswitch box, use Stainless Steel brackets

B132, M132

B1, M1

B21, M21





WEATHER PROOF, MICROSWITCH

DXLW1



NEMA 4, 4X

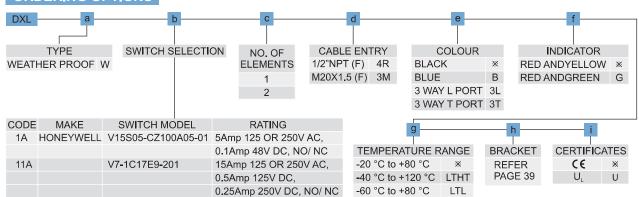


FEATURES

- Aluminium Diecast, with powder coating, for superior corrosion resistance
- Shatterproof Polycarbonate Dome
- Easily settable colour coded cam
- The locked serrated settings cams, ensures the secured setting against any vibration
- A special PCB, eliminates all wiring from the switch element to the terminals. Complete protection against short circuit.
- Three cable entries are provided as a standard
- Cable Entry M20X1.5, 1/2" NPT
- Complies to NAMUR Mounting standard
- Solenoid termination inside the switch box is possible
- Additional mounting hole is threaded as per the UNC series
- Range of Mounting Accessories have compatibility with various Actuator manufacturers available
- Stainless Steel Brackets are available as an option
- The Customer can choose any other V3 configuration Micro Switch
- Certified by UL to UL508, File no. E249752
- Temperature range -20 °C to +80 °C On request -40 °C to +80 °C, -60 °C to +80 °C, -20 °C to +120 °C
- IP 67: Water, Rain and Dust Proof
- IP 68: Upto 100m on request



ORDERING OPTIONS



- DXLW-1A2-4R-B1
- Weather proof switch box is provided, with Honeywell 5 Amp switches 2 nos, each, with 1 NO and 1 NC, use 5 Amps Max. 1/2" NPT cable gland entry. A Stainless Steel bracket, suitable for 80X30 tapping and a 20mm pinion height



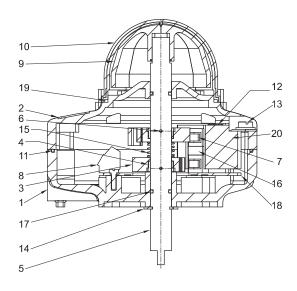


DXLW1

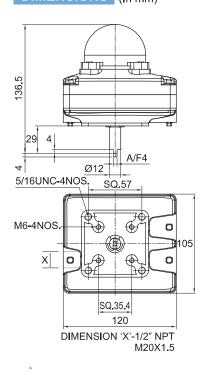
MATERIAL OF CONSTRUCTION

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S.NO.	DESCRIPTION	QTY.	MATERIAL
1	HOUSING	1	ALUMINIUM ALLOY
2	COVER	1	ALUMINIUM ALLOY
3	CAM	2	POLYAMIDE
4	CAM-LOCK	2	DELRIN
5	SHAFT	1	STAINLESS STEEL
6	SPRING DOWEL	2	SPRING STEEL
7	MICROSWITCH (SPDT)	2	HONEYWELL
8	THREE WAY TERMINAL BLOCK	4	-
9	INDICATOR	1	ABS PLASTIC
10	INDICATOR COVER	1	POLYCARBONATE
11	GASKET	1	NBR
12	SCREW FOR MICROSWITCH	2	STAINLESS STEEL
13	NON FALLING SCREW	4	STAINLESS STEEL
14	'E' TYPE CIRCLIP	1	SPRING STEEL
15	SPRING	1	STAINLESS STEEL
16	PAD	1	POLYAMIDE
17	O-RING	2	NBR
18	PRINTED CIRCUIT BOARD	1	-
19	O-RING	1	NBR
20	COVER FOR MICROSWITCH	1	POLYAMIDE

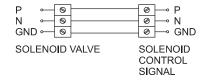
CROSS SECTION



DIMENSIONS (In mm)

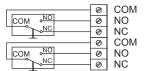


WIRING DIAGRAM



Valve open Yellow cam SWITCH

Valve closed TOP Red cam SWITCH





EXPLOSION PROOF, MICROSWITCH

DNLF1



NEMA 4, 4X, 7 & 9





EC94/9 Ex d, IIC, T6 EN/IS/IEC 60079-0, EN/IS/IEC 60079-1

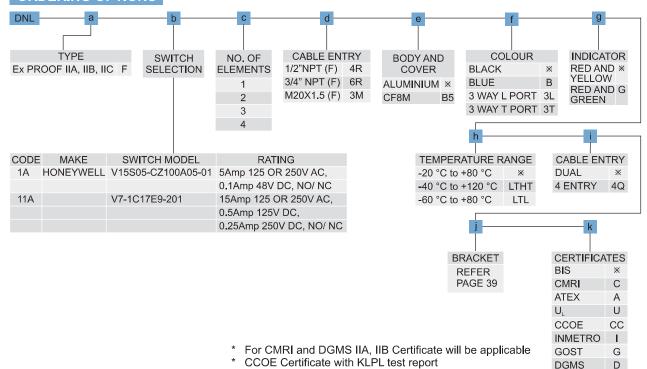
FEATURES

- · Explosion proof to I, IIA, IIB, and IIC
- As per UL1203 and UL508, File no. E246615
- Shatterproof Ploycarbonate Dome
- · Easily settable colour coded cam
- The locked serrated cams, ensures the secured settings against any vibration
- · Switch Box confirms to Ex d IIC, T6 Highest level of safety
- Cable entries M20, 1/2" NPT, or 3/4" NPT
- · All fasteners are in Stainless Steel
- · Additional mounting hole is threaded as per the UNC series
- The customer can choose any other V3 mounting micro switch.
 Current above 10 Amp PCB will not be provided
- ATEX, certified by Baseefa United Kingdom Certification no. Baseefa09ATEX0126
- UL Certified, confirms to UL1203 and UL508, File no. 246615
- Temperature range -20 °C to +80 °C
 On request -40 °C to +80 °C, -60 °C to +80 °C, -20 °C to +120 °C
- Cable entry
 Dual cable entry
 Optional 4 cable entry
- IP 67: Water, Rain and Dust Proof
- IP 68 : Upto 100m on request





ORDERING OPTIONS



- DNLF-11A2-4R-B1-D
- Explosion proof to I, IIA and IIB and Weather proof is provided with Honeywell 15 Amp switches 2 nos, each with 1 NO and 1 NC, 1/2" NPT cable gland entry. A Stainless Steel bracket, suitable for 80X30 tapping and for 20mm pinion height with DGMS certificate

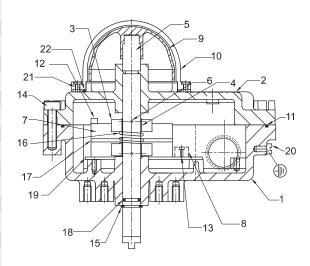


DNLF1

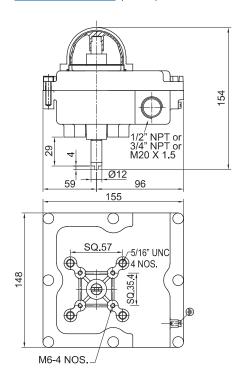
MATERIAL OF CONSTRUCTION

S.NO.	DESCRIPTION	QTY.	MATERIAL
1	HOUSING	1	ALUMINIUM ALLOY LM-6
2	COVER	1	ALUMINIUM ALLOY LM-6
3	CAM	2	POLYAMIDE
4	CAM-LOCK	2	DELRIN
5	SHAFT	1	STAINLESS STEEL
6	SPRING DOWEL	2	SPRING STEEL
7	MICROSWITCH (SPDT)	2	HONEYWELL
8	CONNECTOR STRIP-6 WAY	1	POLYAMIDE
9	INDICATOR	1	ABS PLASTIC
10	INDICATOR COVER	1	POLYCARBONATE
11	GASKET	1	NBR
12	SCREW FOR MICROSWITCH	2	STAINLESS STEEL
13	SCREW FOR CONN. STRIP	2	STAINLESS STEEL
14	NON FALLING SCREW	8	STAINLESS STEEL
15	'E' TYPE CIRCLIP	1	SPRING STEEL
16	SPRING	1	STAINLESS STEEL
17	PAD	1	POLYAMIDE
18	O-RING	2	NBR
19	PRINTED CIRCUIT BOARD	1	-
20	SCREW FOR EARTHING	2	STAINLESS STEEL
21	PHILIPS HEAD SCREW	4	STAINLESS STEEL
22	O-RING	1	NBR

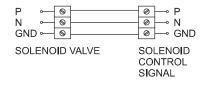
CROSS SECTION



DIMENSIONS (In mm)



WIRING DIAGRAM



Valve open BOTTOM Yellow cam SWITCH

Valve closed TOP Red cam SWITCH

	0	COM
COM ∘NO	0	NO
NC	0	NC
	0	COM
COM °NO	0	NO
NC	0	NC



WEATHER PROOF, CYLINDRICAL SENSOR

DXLW2





EEx ia

INDESTRUCTIBLE INDUCTIVE PROXIMITY LIMIT SWITCH

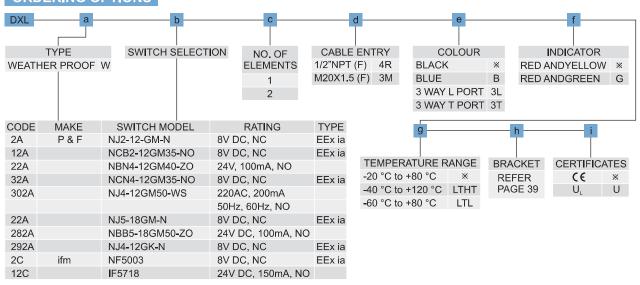
Innovative solution fool-proofs the switch operation & prevents damage either of the cam or the Switch while offering the most compact mounting dimensions.

FEATURES

- Aluminium Diecast, with powder coating for superior corrosion resistance
- · Shatterproof polycarbonate Dome
- · Easily settable colour coded cam
- · P&F cylindrical inductive proximity Sensors (EEx ia)
- The proximity switches are available in NAMUR and NO/ NC type
- Customer can choose any proximity switch
- Three cable entries provided are standard
- · Cable entries M20X1.5, 1/2" NPT
- Complies to NAMUR Mounting standards
- Additional mounting Accessories have compatibility with various Actuator manufacturers available
- · Stainless steel bracket available as an option
- Switch box confirms to UL508, UL file no. E249752
- Temperature range -20 °C to +80 °C
- On request -40 °C to +80 °C, -60 °C to +80 °C, -20 °C to +120 °C
- · IP 67: Water, Rain and Dust Proof
- IP 68 : Upto 100m on request



ORDERING OPTIONS



- DXLW-12A2-4R-B-U
- UL approved, a weather proof box provided, with PEPPERL+FUCHS switches 2 nos, DC out put, each with 1 NC, 1/2" cable gland entry. A Stainless Steel bracket, suitable for 80X30 tapping and for 20mm pinion height

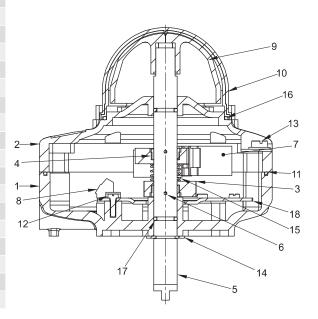


DXLW2

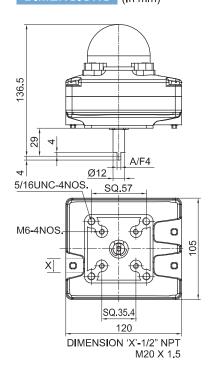
MATERIAL OF CONSTRUCTION

S.NO.	DESCRIPTION	QTY.	MATERIAL
1	HOUSING	1	ALUMINIUM ALLOY
2	COVER	1	ALUMINIUM ALLOY
3	CAM	2	POLYAMIDE
4	CAM-LOCK	2	DELRIN
5	SHAFT	1	STAINLESS STEEL
6	SPRING DOWEL	2	SPRING STEEL
7	PROXIMITY SENSOR	2	P & F, ifm
8	THREE WAY TERMINAL BLOCK	4	-
9	INDICATOR	1	ABS PLASTIC
10	INDICATOR COVER	1	POLYCARBONATE
11	GASKET	1	NBR
12	SCREW FOR BRACKET	2	STAINLESS STEEL
13	NON FALLING SCREW	4	STAINLESS STEEL
14	'E' TYPE CIRCLIP	1	SPRING STEEL
15	SPRING	1	STAINLESS STEEL
16	O-RING	1	NBR
17	O-RING	2	NBR
18	PRINTED CIRCUIT BOARD	1	-

CROSS SECTION



DIMENSIONS (In mm)



WIRING DIAGRAM

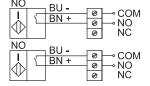
2 WIRE PROXIMITY-NO

Valve open Yellow cam

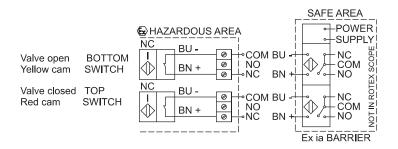
BOTTOM SWITCH

Valve closed Red cam

TOP
SWITCH



2 WIRE PROXIMITY-NC





EXPLOSION PROOF, CYLINDRICAL SENSOR

DNLF2







EC94/9 Ex d, IIC, T6 EN/IS/IEC 60079-0, EN/IS/IEC 60079-1



Innovative solution fool-proofs the switch operation & prevents damage either of the cam or the Switch while offering the most compact mounting dimensions.

FEATURES

- Aluminium Diecast, with powder coating, for superior corrosion resistance
- · Shatterproof polycarbonate Dome
- Easily settable colour coded cam
- Switch Box confirms to Ex d IIC, T6 Highest level of safety
- P&F cylindrical inductive proximity Sensors (EEx ia)
- Up to Maximum 2 Sensor Elements
- Explosion proof to I, IIA, IIB and IIC
- · Proximity switches are available in NAMUR and NO/ NC type
- The customer can choose any M12 proximity switch
- Cable entries M20, 1/2" NPT or 3/4" NPT
- · All fasteners in Stainless Steel
- ATEX, Certified by Baseefa United Kingdom, Certification no.Bassefa09ATEX0126
- UL Certified, confirms UL1203 and Ul508, File no. 246615
- Temperature -20 °C to +80 °C

On request -40 °C to +80 °C, -60 °C to +80 °C, -20 °C to +120 °C

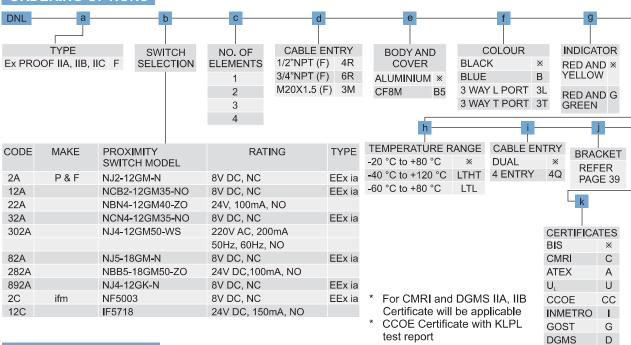
Cable Entry
 Dual cable entry
 Optional 4 cable entry

IP 67: Water, Rain and Dust Proof

IP 68: Upto 100m on request



ORDERING OPTIONS



- DNLF-12A2-4R-B1-U
- UL approved, Explosion proof to UL1203 and UL528, and a weather proof box is provided with PEPPERL+FUCHS switches 2 nos, DC out put, each with 1 NC, 1/2" cable gland entry. A Stainless Steel bracket, suitable for 80X30 tapping and for 20mm pinion height

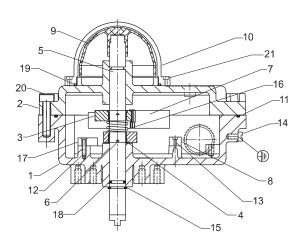


DNLF2

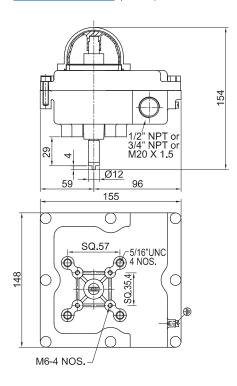
MATERIAL OF CONSTRUCTION

S.NO.	DESCRIPTION	QTY.	MATERIAL
1	HOUSING	1	ALUMINIUM ALLOY LM-6
2	COVER	1	ALUMINIUM ALLOY LM-6
3	CAM	2	POLYAMIDE
4	CAM-LOCK	2	DELRIN
5	SHAFT	1	STAINLESS STEEL
6	SPRING DOWEL	2	SPRING STEEL
7	PROXIMITY SENSOR	2	P & F, ifm
8	TERMINAL BLOCK-6 WAY	1	-
9	INDICATOR	1	ABS PLASTIC
10	INDICATOR COVER	1	POLYCARBONATE
11	GASKET	1	NBR
12	SCREW FOR BRACKET	2	STAINLESS STEEL
13	SCREW FOR CONN. STRIP	2	STAINLESS STEEL
14	SCREW FOR EARTHING	2	STAINLESS STEEL
15	'E' TYPE CERCL I P	1	SPRINT STEEL
16	SPRING	1	STAINLESS STEEL
17	BRACKET	1	M.S.
18	O-R i NG	2	NBR
19	O-RING	1	NBR
20	NON FALLING SCREW	8	STAINLESS STEEL
21	PHILIPS HEAD SCREW	4	STAINLESS STEEL

CROSS SECTION



DIMENSIONS (In mm)

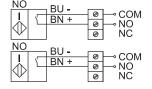


WIRING DIAGRAM

2 WIRE PROXIMITY-NO

Valve open Yellow cam BOTTOM SWITCH Valve closed TOP

Valve closed TOP Red cam SWITCH

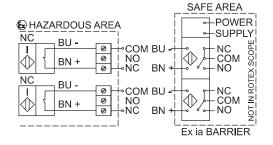


2 WIRE PROXIMITY-NC

Valve open Yellow cam BOTTOM SWITCH Valve closed TOP

Red cam

SWITCH





WEATHER PROOF, FLAT SENSOR

DXLW3





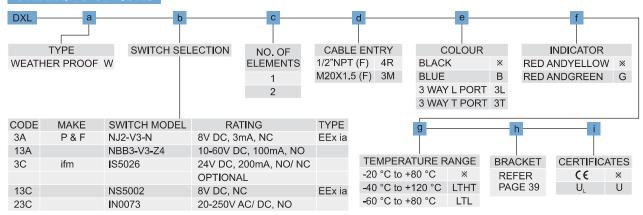
EEx ia

FEATURES

- · Intrinsically safe
- · Weather Proof enclosure, IP67
- P&F flat type inductive proximity Sensors (EEx ia)
- Up to Maximum 2 Sensor Elements
- Aluminium Diecast, with powder coating, for superior corrosion resistance
- Shatterproof polycarbonate Dome
- · Easily settable colour coded cam
- The locked serrated settings cams, ensures the secured setting against any vibration
- Special PCB eliminates all wiring from the switch element to the terminals. Complete protection against short circuit.
- · Three cable entries provided as a standard
- Cable entries M20 X 1.5, 1/2" NPT
- · Complies to NAMUR Mounting standards
- · Solenoid termination inside the switch box is possible
- Proximity switches are available in NAMUR and NO/ NC type
- The customer can choose any flat V3 proximity switch
- Additional mounting hole is threaded as per the UNC series
- Range of Mounting Accessories having compatibility with various Actuator manufactures available
- · Stainless steel bracket available as an option
- Switch box confirms to UL508, UL file no. E249752
- Temperature -20 °C to +80 °C
- On request -40 °C to +80 °C, -60 °C to +80 °C, -20 °C to +120 °C
- IP 67: Water, Rain and Dust Proof
- IP 68: Upto 100m on request



ORDERING OPTIONS



Note: (1) The range is not limited to ones listed above.

Other versions can be offered as per the requirement
(2) Does not require an Exproof enclosure as a standard

- DXLW-13A2-4R-B1-U
- UL approved, Explosion proof to UL1203 and Ul528, and a weather proof box is provided with PEPPERL+FUCHS switches 2 nos, DC out put, each with 1 NO, 1/2" cable gland entry. A Stainless Steel bracket, suitable for 80X30 tapping and for 20mm pinion height

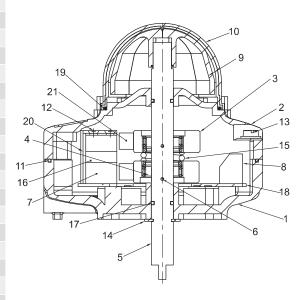


DXLW3

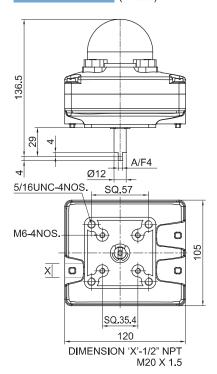
MATERIAL OF CONSTRUCTION

S.NO.	DESCRIPTION	QTY.	MATERIAL
1	HOUSING	1	ALUMINIUM ALLOY
2	COVER	1	ALUMINIUM ALLOY
3	CAM	2	POLYAMIDE
4	CAM-LOCK	2	DELRIN
5	SHAFT	1	STAINLESS STEEL
6	SPRING DOWEL	2	SPRING STEEL
7	PROXIMITY SENSOR	2	P & F, ifm
8	THREE WAY TERMINAL BLOCK	4	-
9	INDICATOR	1	ABS PLASTIC
10	INDICATOR COVER	1	POLYCARBONATE
11	GASKET	1	NBR
12	SCREW FOR MICROSWITCH	2	STAINLESS STEEL
13	NON FALLING SCREW	2	STAINLESS STEEL
14	'E' TYPE CIRCLIP	1	SPRING STEEL
15	SPRING	1	STAINLESS STEEL
16	PAD	1	POLYAMIDE
17	O-RING	2	NBR
18	PRINTED CIRCUIT BOARD	1	-
19	O-RING	1	NBR
20	COVER FOR MICROSWITCH	1	POLYAMIDE
21	CAP FOR SENSOR	2	STAINLESS STEEL

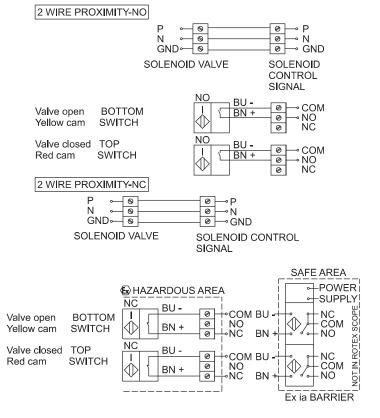
CROSS SECTION



DIMENSIONS (In mm)



WIRING DIAGRAM





EXPLOSION PROOF, FLAT SENSOR

DNLF3







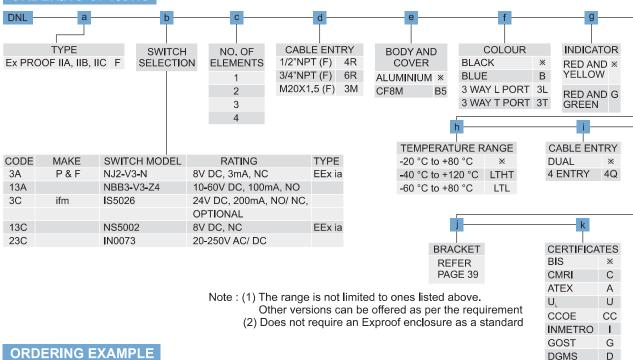


FEATURES

- Intrinsically safe
- Flat inductive proximity sensors (Ex ia)
- Aluminium Diecast, with powder coating, for superior corrosion resistance
- A weatherproof enclosure to IP67
- A switch box confirms to Ex d IIC, T6 highest level of safety
- Explosion proof to I, IIA, IIB, and IIC
- ATEX certified by Baseefa United Kingdom, Certification no. Baseefa09ATEX0126
- ATEX as per EN/ IEC 60079
- UL Certified, confirms to UL1203 & UL508, File no. 246615
- Shatterproof Polycarbonate Dome
- Red and Yellow Indicator
- Color coded cams easy to identify, and easy to set
- Solenoid termination inside the switch box, is standard
- The locked serrated settings cams, ensures the secured setting against any vibration
- Conduit entry options 1/2" NPT 3/4" NPT, M20 X1.5
- Temperature range -20 °C to +80 °C
 - On request -40 °C to +80 °C, -60 °C to +80 °C, -20 °C to +120 °C
- Bracket available as an option
- Cable entry Dual cable entry Optional 4 cable entry
- IP 67: Water, Rain and Dust Proof
- IP 68: Upto 100m on request



ORDERING OPTIONS



- DNLF-13A2-4R-B1-U
- UL approved, Explosion proof to UL1203 and UL528, and a weather proof box is provided with PEPPERL+FUCHS switches 2 nos, DC out put, each with 1 NO, 1/2" cable gland entry. A Stainless Steel bracket, suitable for 80X30 tapping and for 20mm pinion height

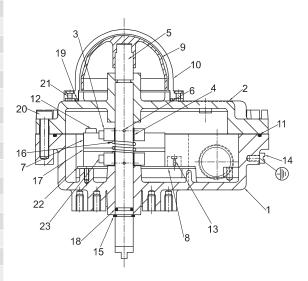


DNLF3

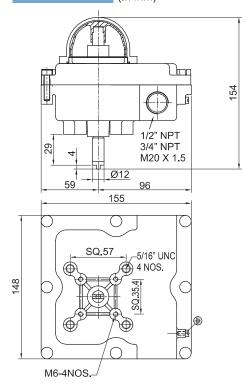
MATERIAL OF CONSTRUCTION

S.NO.	DESCRIPTION	QTY.	MATERIAL
1	HOUSING	1	ALUMINIUM ALLOY LM-6
2	COVER	1	ALUMINIUM ALLOY LM-6
3	CAM	2	POLYAMIDE
4	CAM-LOCK	2	DELRIN
5	SHAFT	1	STAINLESS STEEL
6	SPRING DOWEL	2	SPRING STEEL
7	PROXIMITY SENSOR	2	P & F, ifm
8	TERMINAL BLOCK-6 WAY	1	-
9	INDICATOR	1	ABS PLASTIC
10	INDICATOR COVER	1	POLYCARBONATE
11	GASKET	1	ABS PLASTIC
12	SCREW FOR PROXIMITY	2	STAINLESS STEEL
13	SCREW FOR CONN. STRIP	2	STAINLESS STEEL
14	SCREW FOR EARTHING	2	STAINLESS STEEL
15	'E' TYPE CIRCLIP	1	SPRING STEEL
16	SPRING	1	STAINLESS STEEL
17	BRACKET	1	M.S.
18	O-RING	2	NBR
19	O-RING	1	NBR
20	NON FALLING SCREW	8	STAINLESS STEEL
21	PHILIPS HEAD SCREW	4	STAINLESS STEEL
22	PRINTED CIRCUIT BOARD	1	-
23	CAP FOR SENSOR	2	STAINLESS STEEL

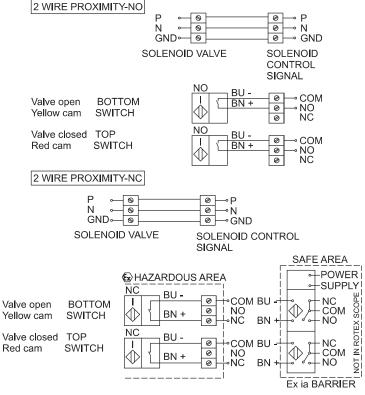
CROSS SECTION



DIMENSIONS (In mm)



WIRING DIAGRAM





WEATHER PROOF, SLOT SENSOR

DXLW4





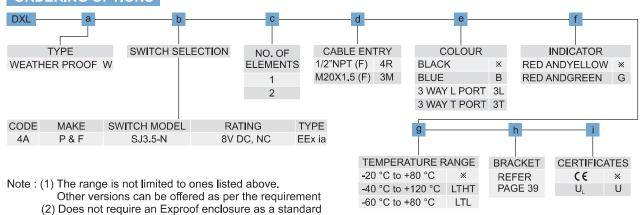
FFx i

FEATURES

- · Weather Proof enclosure, IP67
- · P&F slot type inductive proximity Sensors (EEx ia)
- · Up to Maximum 2 Sensor Elements
- Aluminium Diecast, with powder coating, for superior corrosion resistance
- · Shatterproof Polycarbonate Dome
- Easily settable colour coded cam
- The locked serrated cams, ensures the secured settings against any vibration
- Special PCB eliminates all wiring from the switch element to the terminals. Complete protection against short circuit.
- Three cable entries provided as a standard
- Cable entries M20 X 1.5, 1/2" NPT
- · Proximity switches available in NAMUR
- · Complies to NAMUR Mounting standards
- · Solenoid termination inside the switch box is possible
- Additional mounting holes are threaded as per the UNC series
- Range of Mounting Accessories having compatibility with various Actuator manufacturers available
- Stainless steel bracket available as an option
- Switch box confirms to UL508, UL file no. E249752
- Temperature -20 °C to +80 °C On request -40 °C to +80 °C, -60 °C to +80 °C, -20 °C to +120 °C
- IP 67: Water, Rain and Dust Proof
- IP 68: Upto 100m on request



ORDERING OPTIONS



- DXLW-4A2-4R-B1-U
- UL approved, Explosion proof to UL1203 and UL528, and a weather proof box is provided with PEPPERL+FUCHS switches 2 nos, DC out put, each with 1 NC, 1/2" cable gland entry. A Stainless Steel bracket, suitable for 80X30 tapping and for 20mm pinion height

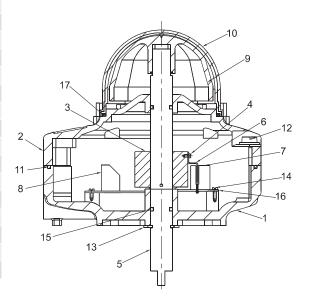


DXLW4

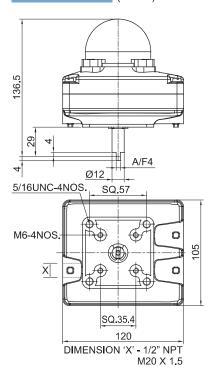
MATERIAL OF CONSTRUCTION

S.NO.	DESCRIPTION	QTY.	MATERIAL
1	HOUSING	1	ALUMINIUM ALLOY
2	COVER	1	ALUMINIUM ALLOY
3	CAM	1	ALUMINIUM
4	SCREW FOR CAM	2	STAINLESS STEEL
5	SHAFT	1	STAINLESS STEEL
6	SENSOR PLATE	1	MILD STEEL
7	PROXIMITY SENSOR	2	P & F, ifm
8	THREE WAY TERMINAL BLOCK	4	-
9	INDICATOR	1	ABS PLASTIC
10	INDICATOR COVER	1	POLYCARBONATE
11	GASKET	1	NBR
12	NON FALLING SCREW	4	STAINLESS STEEL
13	'E' TYPE CIRCLIP	1	SPRING STEEL
14	SCREW FOR PCB	2	STAINLESS STEEL
15	O-RING	2	NBR
16	PRINTED CIRCUIT BOARD	1	-
17	O-RING	1	NBR

CROSS SECTION

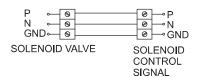


DIMENSIONS (In mm)



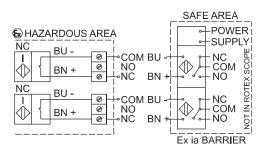
WIRING DIAGRAM

2 WIRE PROXIMITY-NC



Valve open Yellow cam SWITCH

Valve closed Red cam SWITCH





EXPLOSION PROOF, DPDT, MICROSWITCH





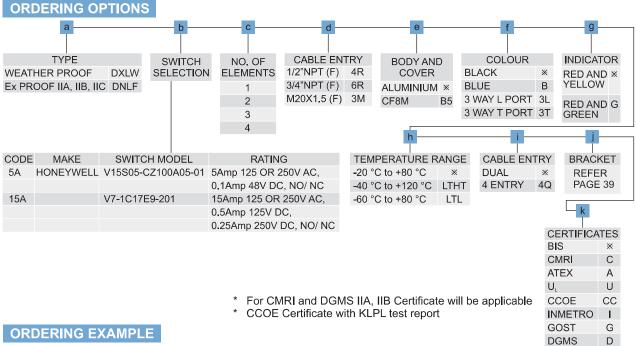


EC94/9 Ex d. IIC. T6 EN/IS/IEC 60079-0. EN/IS/IEC 60079-1



- Explosion proof enclosure Gr IIA, IIB and IIC is available as
- Honeywell/ Cherry Microwitch Sensors
- Up to Maximum 4 Sensor Elements
- Exproof to I, IIA, IIB, and IIC
- ATEX EX d IIC, T6
- Aluminium Diecast, with powder coating, for superior corrosion resistance
- Shatterproof Polycarbonate Dome
- Easily settable colour coded cam
- The locked serrated cams, ensures the secured settings against any vibration
- Switch Box confirms to Ex d IIC, T6 Highest level of safety
- Cable Entry M20, 1/2" NPT or 3/4" NPT
- Special PCB eliminates all wiring from the switch element to the terminals. Complete protection against short circuit
- All fasteners are in Stainless Steel
- Customer can choose any DPDT switch
- Additional mounting hole to the UNC series
- ATEX, Certified by Baseefa United Kingdom, Certification no.Baseefa09ATEX0126
- UL Certified, confirms UL1203 and Ul508, File no. 246615
- Temperature range -20 °C to +80 °C On request -40 °C to +80 °C, -60 °C to +80 °C, -20 °C to +120 °C
- Cable entry Dual cable entry Optional 4 cable entry
- IP 67: Water, Rain and Dust Proof
- IP 68: Upto 100m on request





- DNI F-5A2-4R-B1
- Explosion proof to I, IIA and IIB and a weather proof box is provided with Honeywell 5 Amp switches 2 nos, each with 2 NO and 2 NC, 1/2" NPT cable gland entry. A Stainless Steel bracket, suitable for 80X30 tapping and for 20mm pinion height

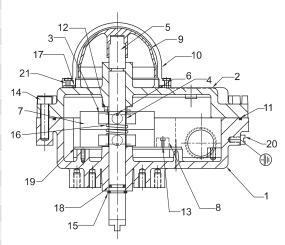


DNLF5/ DXLW5

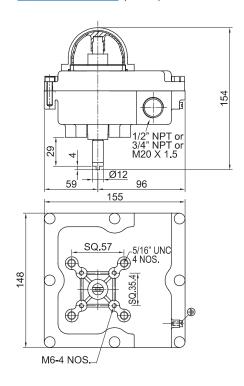
MATERIAL OF CONSTRUCTION

S.NO.	DESCRIPTION	QTY.	MATERIAL
1	HOUSING	1	ALUMINIUM ALLOY LM-6
2	COVER	1	ALUMINIUM ALLOY LM-6
3	CAM	2	POLYAMIDE
4	CAM-LOCK	2	DELRIN
5	SHAFT	1	STAINLESS STEEL
6	SPRING DOWEL	2	SPRING STEEL
7	MICROSWITCH (DPDT)	2	HONEYWELL
8	CONNECTOR STRIP 6 WAY	1	POLYAMIDE
9	INDICATOR	1	ABS PLASTIC
10	INDICATOR COVER	1	POLYCARBONATE
11	GASKET	1	NBR
12	SCREW FOR BRACKET	2	STAINLESS STEEL
13	SCREW FOR PCB	2	STAINLESS STEEL
14	NON FALLING SCREW	8	STAINLESS STEEL
15	'E' TYPE CIRCLIP	1	SPRING STEEL
16	SPRING	1	STAINLESS STEEL
17	O-RING	1	NBR
18	O-RING	2	NBR
19	PRINTED CIRCUIT BOARD	1	-
20	SCREW FOR EARTHING	2	STAINLESS STEEL
21	PHILIPS HEAD SCREW	4	STAINLESS STEEL

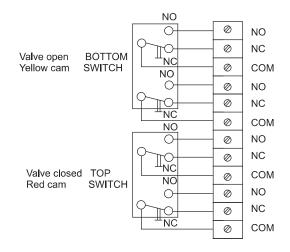
CROSS SECTION



DIMENSIONS (In mm)



WIRING DIAGRAM





EXPLOSION PROOF, HERMETICALLY SEALED SWITCH

DNLF6

COBRA







EC94/9 Ex d, IIC, T6 EN/IS/IEC 60079-0, EN/IS/IEC 60079-1



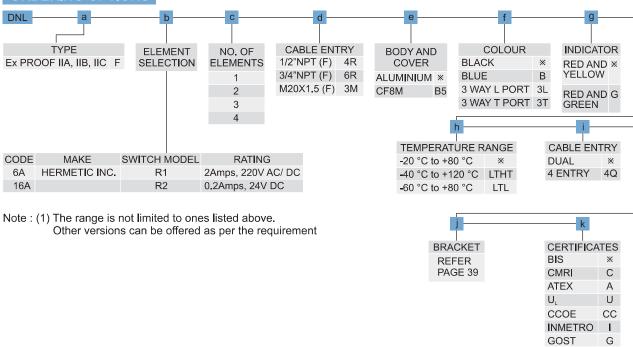
FEATURES

- Explosion proof I, IIA, IIB, and IIC
- · Maximum current permissible 2 Amps Ac/ Dc
- Aluminium Diecast, with powder coating, for superior corrosion resistance
- · Shatterproof Polycarbonate Dome
- · Easily settable colour coded cam
- The locked serrated cams, ensures the secured settings against any vibration
- · Switch box confirms to Ex d IIC, T6 Highest level of safety
- Cable Entry M20, 1/2" NPT or 3/4" NPT
- Special PCB eliminates all wiring from the switch element to the terminals. Complete protection against short circuit.
- · All fasteners are in Stainless Steel
- · Additional mounting holes to the UNC series
- ATEX, certified by Baseefa United Kingdom, Certification no. Baseefa09ATEX0126
- UL Certified, Confirms to UL1203 and UL508, File no. 246615
- Temperature -20 °C to 80 °C
- On request -40 °C to 80 °C, -60 °C to +80 °C, -20 °C to +120 °C
- Cable entry
 Dual cable entry
 Optional 4 cable entry
- IP 67 : Water, Rain and Dust Proof
- IP 68: Upto 100m on request



DGMS

ORDERING OPTIONS



- DNLF-6A2-4R-B1-U-D
- UL approved, Explosion proof to UL1203 and UL528, and a weather proof box is provided with 2 nos of Hermetically sealed switch 2Amps 1/2" cable gland entry. A Stainless Steel bracket suitable for 80X30 tapping and for 20mm pinion height with DGMS certificate

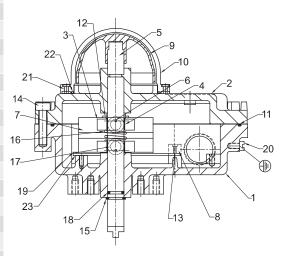


DNLF6

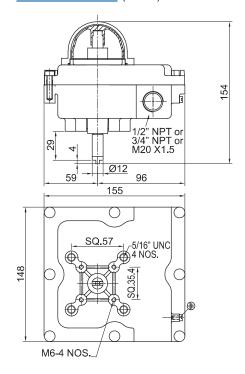
MATERIAL OF CONSTRUCTION

S.NO.	DESCRIPTION	QTY.	MATERIAL
1	HOUSING	1	ALUMINIUM ALLOY LM-6
2	COVER	1	ALUMINIUM ALLOY LM-6
3	CAM	2	POLYAMIDE
4	CAM-LOCK	2	DELRIN
5	SHAFT	1	STAINLESS STEEL
6	SPRING DOWEL	2	SPRING STEEL
7	HERMETICALY SEALED SWITCH	2	HERMATIC INC.
8	CONNECTOR STRIP 6 WAY	1	POLYMIDE
9	INDICATOR	1	ABS PLASTIC
10	INDICATOR COVER	1	POLYCARBONATE
11	GASKET	1	NBR
12	SCREW FOR REEDSWITCH	2	STAINLESS STEEL
13	SCREW FOR CONN. STRIP	2	STAINLESS STEEL
14	NON FALLING SCREW	8	STAINLESS STEEL
15	'E' TYPE CIRCLIP	1	SPRING STEEL
16	SPRING	1	STAINLESS STEEL
17	CAP FOR CAM	2	POLYAMIDE
18	O-RING	2	NBR
19	MOUNTING PLATE	1	M.S.
20	SCREW FOR EARTHING	2	STAINLESS STEEL
21	PHILIPS HEAD SCREW	4	STAINLESS STEEL
22	O-RING	1	NBR
23	PRINTED CIRCUIT BOARD	1	-

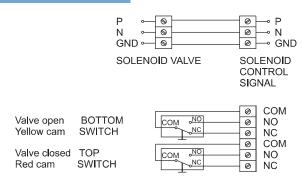
CROSS SECTION



DIMENSIONS (In mm)



WIRING DIAGRAM





POSITION TRANSMITTER

PTR01/ PTR02



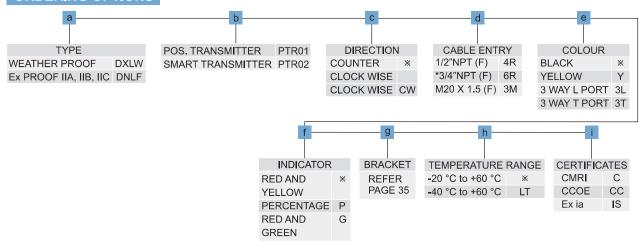
- Weather Proof
- Explosion Proof

FEATURES

- Explosion proof and weather proof position transmitter
- Accuracy 0.3% FS
- Repeatability 0.2% FS
- Hysteresis 0.3% FS
- Field adjustment available
- Zero and span adjustable
- 2 wire system
- Spring loaded resistive feed back
- Visual percentage indicator provided Temperature -20 °C to +60 °C On request -40 °C to +80 °C, -60 °C to +80 °C, -20 °C to +120 °C
- NAMUR mounting dimensions



ORDERING OPTIONS



Notes: (1) The range is not limited to ones listed above. Other versions can be offered as per the requirement

- (2) Does not require an Exproof enclosure as a standard
- *(3) For DXLW-PTR-3/4" NPT (F) not possible

- DXLW-PTR01-C-4R-Y-M1
- Weather proof position transmitter giving 4-20 mA output, with increase in current when rotated clockwise, 1/2" NPT cable gland entry, with black colour box having a steel bracket. 80X30 mounting holes for 20 mm pinion height

VERSATILE **LIMITSWITCH**



PTR/ 01 PTR/ 02

MATERIAL OF CONSTRUCTION

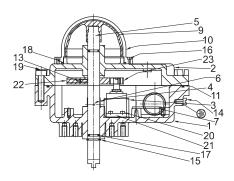
DNLF-PTR

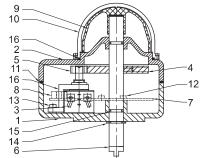
S.NO.	DESCRIPTION	QTY.	MATERIAL
1	HOUSING	1	ALUMINIUM ALLOY LM-6
2	COVER	1	ALUMINIUM ALLOY LM-6
3	POTENTIOMETER	1	-
4	CAM-LOCK	1	DELRIN
5	SHAFT	1	STAINLESS STEEL
6	SPRING DOWEL	1	SPRING STEEL
7	LINEAR TRANSMITTER CARD	1	-
8	CAM-1	1	ALUMINIUM
9	INDICATOR	1	ABS PLASTIC
10	INDICATOR COVER	1	POLYCARBONATE
11	GASKET	1	NBR
12	CAM-2	1	ALUMINIUM
13	HEX SOC. SET SCREW	2	STAINLESS STEEL
14	SCREW FOR EARTHING	2	STAINLESS STEEL
15	'E' TYPE CIRCLIP	1	SPRING STEEL
16	PHILIPS HEAD SCREW	4	STAINLESS STEEL
17	O-RING	2	NBR
18	O-RING	1	NBR
19	NON FALLING SCREW	8	STAINLESS STEEL
20	SLOTTED CHEESE HEAD SCREW	2	STAINLESS STEEL
21	BRACKET	1	M.S.

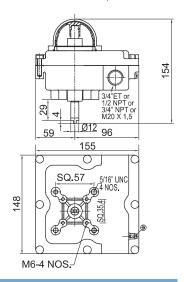
DXLW-PTR

S.NO.	DESCRIPTION	QTY.	MATERIAL
1	HOUSING	1	ALUMINIUM ALLOY
2	COVER	1	ALUMINIUM ALLOY
3	POTENTIOMETER	1	-
4	GEAR CAM-1	2	ALUMINIUM
5	GEAR CAM-2	1	ALUMINIUM
6	SHAFT	2	STAINLESS STEEL
7	LINEAR TRANSMITTER CARD	2	-
8	3 WAY TERMINAL BLOCK	4	-
9	INDICATOR	1	ABS PLASTIC
10	INDICATOR COVER	1	POLYCARBONATE
11	GASKET	1	NBR
12	SLOTTED CHEESE HEAD SCREW	2	STAINLESS STEEL
13	SLOTTED CHEESE HEAD SCREW	1	STAINLESS STEEL
14	'E' TYPE CIRCLIP	1	SPRING STEEL
15	O-RING	2	NBR
16	O-RING	1	NBR

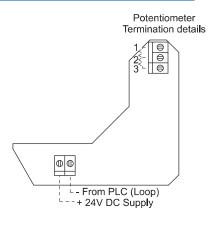
CROSS SECTION







LINEAR TRANSMITER CARD





VALVE CONTROL BOX

VALVE CONTROL BOX WITH 3/2 & 5/2 SOV CONTROL

FEATURES

- · Explosion proof I, IIA, IIB and IIC
- Maximum current permissible 2 Amps Ac/ Dc resistance
- · Shatterproof Ploycarbonate Dome
- · Easily settable colour coded cam
- The locked serrated cams, ensures the secured settings against any vibration
- Switch Box confirms to Ex d IIC, T6 Highest level of safety
- Cable Entry M20, 1/2" NPT, or 3/4" NPT
- Special PCB eliminates all wiring from the switch element to the terminals. Complete protection against short circuit
- · All fasteners are in Stainless Steel
- · Additional mounting hole to the UNC series
- ATEX, certified by Baseefa United Kingdom,
- The Valve Automation System is suitable for ON/ OFF application
- Solenoid valve is designed with the threaded cover to suit the limit switch box tapping
- Manual override on SOV are available as an option



VALVE CONTROL BOX WITH DRIBBLE CONTROL

- The Actuator is suitable for coarse-fine adjustment, typically for batching operations or processes
- The Actuator has to be spring return
- The operation sequences fixed from full open, partial open to full close
- İnfinite intermediate positions are possible with the limitswitch
- It can be fine tuned to the application easily
- The settings can be changed at site with ease, by simply adjusting the third cam provided
- It is applicable for 90° or 180° any ROTEX spring return Actuator can be converted into this arrangement by adding ROTEX valve Control Box with Dribble control



VERSATILE **LIMITSWITCH**



VALVE CONTROL BOX

DNLF







EC94/9 Ex d, IIC, T6 EN/IS/IEC 60079-0, EN/IS/IEC 60079-1



FEATURES

- Valve control box with 3/2 solenoid valve
- Solenoid valve is designed with the threaded cover to suit the limit switch box tapping
- Explosion proof to I, IIA, IIB, and IIC
- As per UL1203 and UL508, File no. E246615
- Shatterproof Ploycarbonate Dome
- Easily settable colour coded cam
- The locked serrated cams, ensures the secured settings against any vibration
- Switch Box confirms to Ex d IIC, T6 Highest level of safety
- Cable entries M20, 1/2" NPT, or 3/4" NPT
- All fasteners are in Stainless Steel
- Additional mounting hole is threaded as per the UNC series
- The customer can choose any other V3 mounting micro switch. Current above 10 Amp PCB will not be provided
- ATEX, certified by Baseefa United Kingdom, Certification no. Baseefa09ATEX0126
- UL Certified, confirms to UL1203 and UL508, File no. 246615
- Temperature range -20 °C to +80 °C
- On request -40 °C to +80 °C, -60 °C to +80 °C, -20 °C to +120 °C
- Cable entry Dual cable entry Optional 4 cable entry
- IP 67: Water, Rain and Dust Proof
- IP 68: Upto 100m on request



VALVE CONTROL BOX DRIBBLE

DNLF







EC94/9 Ex d, IIC, T6 EN/IS/IEC 60079-0, EN/IS/IEC 60079-1



- Valve control box with Dribble control
- Dribble control valve is designed with the threaded cover to suit the limit switch box tapping
- Explosion proof to I, IIA, IIB, and IIC As per UL1203 and UL508, File no. E246615
- Shatterproof Ploycarbonate Dome
- Easily settable colour coded cam
- The locked serrated cams, ensures the secured settings against any vibration
- Switch Box confirms to Ex d IIC, T6 Highest level of safety
- Cable entries M20, 1/2" NPT, or 3/4" NPT
- All fasteners are in Stainless Steel
- Additional mounting hole is threaded as per the UNC series
- The customer can choose any other V3 mounting micro switch. Current above 10 Amp PCB will not be provided
- ATEX, certified by Baseefa United Kingdom, Certification no. Baseefa09ATEX0126
- UL Certified, confirms to UL1203 and UI508, File no. 246615
- Temperature range -20 °C to +80 °C On request -40 °C to +80 °C, -60 °C to +80 °C, -20 °C to +120 °C
- Cable entry Dual cable entry Optional 4 cable entry
- IP 67: Water, Rain and Dust Proof
- IP 68: Upto 100m on request





VALVE CONTROL BOXES-5/2 SOLENOID VALVES

VALVE CONTROL BOX WITH 5/2 SINGLE SOLENOID VALVE

FEATURES

- Valve control box with 5/2 single solenoid valve
- Solenoid valve is designed with the threaded cover to suit the limit switch box tapping
- Explosion proof to I, IIA, IIB, and IIC As per UL1203 and UL508, File no. E246615
- Shatterproof Ploycarbonate Dome
- Easily settable colour coded cam
- The locked serrated cams, ensures the secured settings against any vibration
- Switch Box confirms to Ex d IIC, T6 Highest level of safety
- Cable entries M20, 1/2" NPT, or 3/4" NPT
- All fasteners are in Stainless Steel
- Additional mounting hole is threaded as per the UNC series
- The customer can choose any other V3 mounting micro switch. Current above 10 Amp PCB will not be provided
- ATEX, certified by Baseefa United Kingdom, Certification no. Baseefa09ATEX0126
- UL Certified, confirms to UL1203 and UL508, File no. 246615
- Temperature range -20 °C to +80 °C On request -40 °C to +80 °C, -60 °C to +80 °C, -20 °C to +120 °C
- Cable entry Dual cable entry Optional 4 cable entry
- IP 67: Water, Rain and Dust Proof
- IP 68: Upto 100m on request



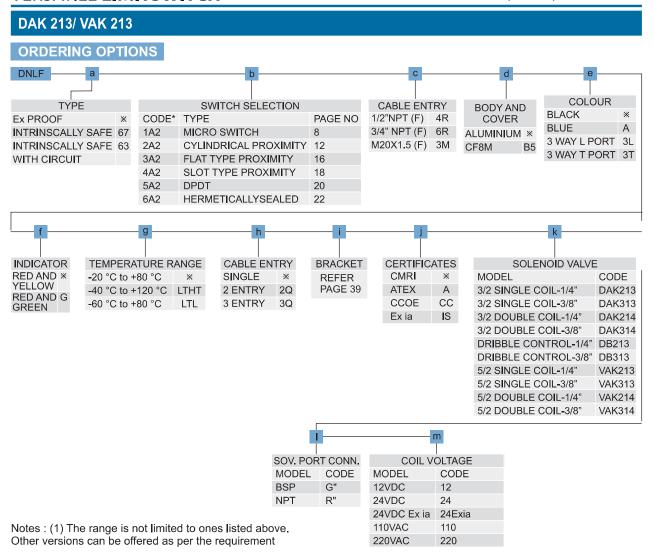
VALVE CONTROL BOX WITH 5/2 DOUBLE SOLENOID VALVE

- Valve control box with 5/2 Double solenoid valve
- Solenoid valve is designed with the threaded cover to suit the limit switch box tapping
- Valve control box with 5/2 single solenoid valve
- Solenoid valve is designed with the threaded cover to suit the limit switch box tapping
- Explosion proof to I, IIA, IIB, and IIC
- As per UL1203 and UL508, File no. E246615
- Shatterproof Ploycarbonate Dome
- Easily settable colour coded cam
- The locked serrated cams, ensures the secured settings against any vibration
- Switch Box confirms to Ex d IIC, T6 Highest level of safety
- Cable entries M20, 1/2" NPT, or 3/4" NPT
- All fasteners are in Stainless Steel
- Additional mounting hole is threaded as per the UNC series
- The customer can choose any other V3 mounting micro switch. Current above 10 Amp PCB will not be provided
- ATEX, certified by Baseefa United Kingdom, Certification no. Baseefa09ATEX0126
- UL Certified, confirms to UL1203 and UL508, File no. 246615
- Temperature range -20 °C to +80 °C On request -40 °C to +80 °C, -60 °C to +80 °C, -20 °C to +120 °C
- Cable entry Dual cable entry Optional 4 cable entry
- IP 67: Water, Rain and Dust Proof
- IP 68: Upto 100m on request





VERSATILE **LIMITSWITCH**



- * Select complete code from respective pages choosing ordering option (B) (C) e.g. page 8, 2 nos. Honeywell Microswitch choose 1A2
- DNLF-67-3A2-DB213-2G-24VDC-4R-A
- Intrinsically safe box with NJ2V3N 2 Nos switch with Double solenoid valve 1/4"BSP, 24VDC Ex ia type, 1/2"NPT 2 Nos
 ports (One will be used for solenoid valve only available to customer)

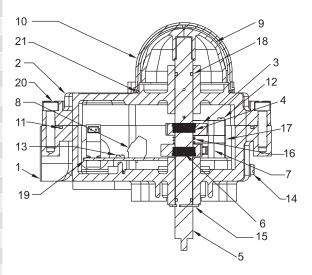


VALVE CONTROL BOX

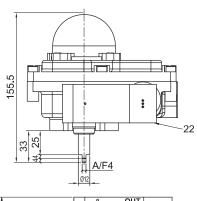
MATERIAL OF CONSTRUCTION

S.NO.	DESCRIPTION	QTY,	MATERIAL
1	HOUSING	1	ALUMINIUM ALLOY LM-6
2	COVER	1	ALUMINIUM ALLOY LM-6
3	CAM	2	POLYAMIDE
4	CAM-LOCK	2	DELRIN
5	SHAFT	1	STAINLESS STEEL
6	SPRING DOWEL	2	SPRING STEEL
7	MICROSWITCH (SPDT)	2	HONEYWELL
8	THREE WAY TERMINAL BLOCK	4	POLYAMIDE
9	INDICATOR	1	ABS PLASTIC
10	INDICATOR COVER	1	POLYCARBONATE
11	GASKET	1	NBR
12	SCREW FOR MICROSWITCH	2	STAINLESS STEEL
13	SCREW FOR PCB	2	STAINLESS STEEL
14	SCREW FOR EARTHING	2	STAINLESS STEEL
15	'E' TYPE CIRCLIP	1	SPRING STEEL
16	SPRING	1	STAINLESS STEEL
17	PAD	1	POLYAMIDE
18	O-RING	2	NBR
19	PRINTED CIRCUIT BOARD	1	-
20	NON FALLING SCREW	8	STAINLESS STEEL
21	O-RING	1	NBR
22	3/2 SOLENOID VALVE	1	-

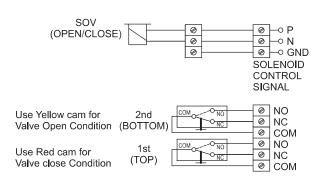
CROSS SECTION

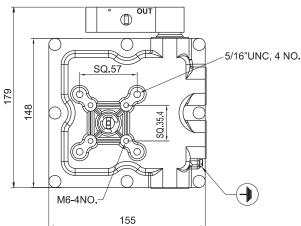


DIMENSIONS (In mm)



WIRING DIAGRAM





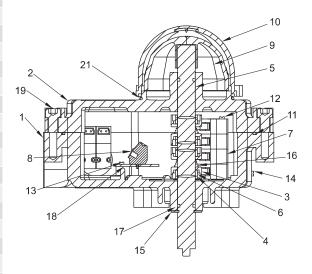


VALVE CONTROL BOX DRIBBLE

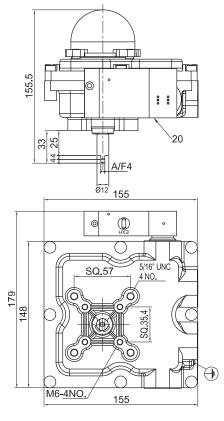
MATERIAL OF CONSTRUCTION

S.NO.	DESCRIPTION	QTY.	MATERIAL
1	HOUSING	1	ALUMINIUM ALLOY LM-6
2	COVER	1	ALUMINIUM ALLOY LM-6
3	CAM	4	POLYAMIDE
4	CAM-LOCK	4	DELRIN
5	SHAFT	1	STAINLESS STEEL
6	SPRING DOWEL	4	SPRING STEEL
7	MICROSWITCH (SPDT)	4	HONEYWELL
8	CONNECTOR STRIP-6 WAY	1	POLYAMIDE
9	INDICATOR	1	ABS PLASTIC
10	INDICATOR COVER	1	POLYCARBONATE
11	GASKET	1	NBR
12	SCREW FOR MICROSWITCH	2	STAINLESS STEEL
13	SCREW FOR CONN. STRIP	2	STAINLESS STEEL
14	SCREW FOR EARTHING	2	STAINLESS STEEL
15	'E' TYPE CIRCLIP	1	SPRING STEEL
16	SPRING	1	STAINLESS STEEL
17	O-RING	2	NBR
18	PRINTED CIRCUIT BOARD	1	-
19	NON FALLING SCREW	8	STAINLESS STEEL
20	DRIBBLE CONTROL VALVE	1	-
21	O-RING	1	NBR

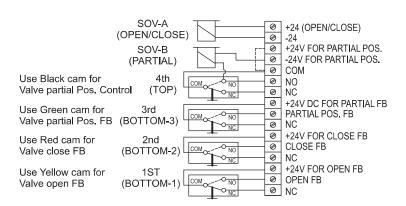
CROSS SECTION



DIMENSIONS (In mm)



WIRING DIAGRAM





FIELDBUS

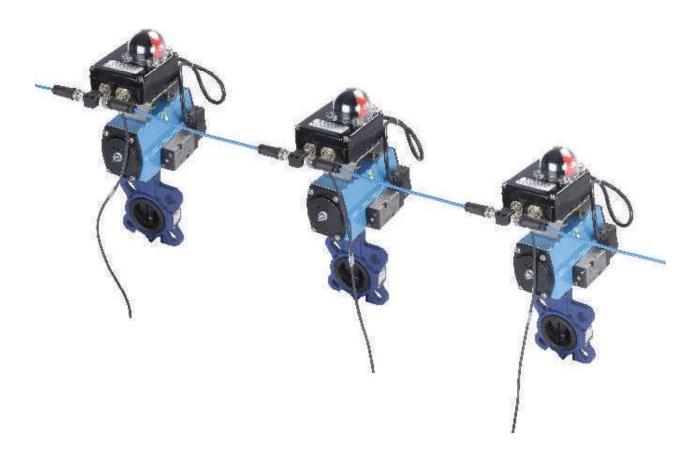
CATEGORY 1 AS-interface

The first category is at a relatively simple level where the requirement is to distribute digital I/O (inputs and outputs) to monitor inputs from switches or sensors (level, travel limit, fault alarms etc.) and or control outputs to ON/OFF devices such as solenoid valves or relays. In such applications, the requirement for high speed data transmission is not critical and the need to process significant amounts of data at the node does not exist. Generally, the control function is ON/OFF and the speed at which the related equipment operates, is far slower than the electronic data transfer rate. Electronic hardware cost, is an important factor, and local nodes need to be relatively simple, generally, with a maximum I/O count of 4 DO/DI for AS-interface is a typical system in this category

CATEGORY 3 PROFIBUS or FOUNDATION fieldbus

The third category is by far the largest with systems transmitting process control data at high speed to a potentially large number of nodes. The functionality of nodes can range from distributing discrete digital and analogue I/O, providing gateway to lower level systems (like AS-interface), through remote processing and local loop control. Systems in this third category are full function fieldbus capable of handling cyclic data, events and messages. Examples include PROFIBUS or FOUNDATION fieldbus (FF)

NETWORKING







PROFIBUS-DP/PA, DIVICENET, CANOPEN

TYPE 'F' LIMITSWITCH BOX WITH PROFIBUS-DP/PA

- The 'F' limitswitch box, has been designed, to overcome lengthy wiring. It is easy to operate, maintain and control
- The box is configured to exchange data through field bus using PROFIBUS-DP protocol
- The Field bus connectivity is achieved, by using RS 485 interface with 5 core cable

COMMUNICATION CHARACTERISTICS

Protocol	Profibus-DP (Device Bus)	Profibus - PA (Process Control Network)
Transmission	Shielded and Twisted pair	Twisted pair, Fiber
Bus Structure	Line or tree, Using repeaters	Bus, Ring, Star
Maximum No of slaves	126	32 Nodes/ Segment 4-6 per repeated segment
		depending on power requirements of devices and the
		type of IS Barrier used
Input/ Output per Box	2 Inputs/ 2 Outputs	2 Inputs/ 2 Outputs
	4 Inputs/ 4 Outputs optional	4 Inputs/ 4 Outputs optional
Bus cable length	1200m at 9.6 kbps	1900M Maximum
	100m at 12 mbps	Distance 9500m with Repeater
		(Maximum 9 Repeaters)
Slave addressing	Rotary Switch/ Dip switch	Dip switch/ Handheld/ Software

ELECTRICAL CHARACTERISTICS

Supply voltage : 24V DC+/- 10% with max 15% ripple

Bus consumption : < 150 mA
Solenoid consumption : Up to 8W
Protection : IP55

Supply connection (24V)
 Bus connection
 M8 Socket 4 pin male
 IN 5 pin M12-B male

Earthing : On the box

• Electromagnetic compatibility: CE, directive EMC 89/ 336/ EEC

STANDARD INPUTS/ OUTPUT

Microswitch : V15S05-CZ100A05-01 (5A) Honeywell

Proximity : NJ2-V3-N (NAMUR sensor for Intrinsically safe application) P & F

NBB3-V3-Z4 (24V, 100 mA) P & F

Solenoid valves
 24V DC, 300 mA (8W max)





VERSATILE **LIMITSWITCH**

PROFIBUS-DP/PA, DIVICENET, CANOPEN

TYPE 'F' LIMITSWITCH BOX WITH DEVICENET AND CANOPEN

- · The type "F" limitswitch box has been designed to overcome lengthy wiring. It is easy to operate, maintain and control
- The Limitswitch box is configured to exchange data through the fieldbus using DEVICENET or CANOPEN protocol
- The fieldbus connectivity is achieved by using 2(signal) X 2(data) with shield, 5 core cable

COMMUNICATION CHARACTERISTICS

Protocol
 Transmission
 DEVICENET or CANOPEN
 2X2 twisted and shielded cable

Bus Structure : Line or tree Structure

Max. no. of slaves : 63

Input/ Output per box
Bus cable length
2 Inputs/2 Outputs (4 Inputs/ 4 Outputs optional)
500m at 125k bit/s and 100m at 500k bit/s

Slave addressing : Rotary or DIP switch

ELECTRICAL CHARACTERISTICS

• Supply voltage : 24V DC +/- 10% with max 15% ripple (Condition power supply to protect the

Digital communication)

Bus consumption : < 100 mA
Solenoid consumption : Up to 8W
Protection : IP55

Supply connection (24 V) : M8 Socket 3/4 pin male
 Bus connection : 5 Pin M12-A male

Electromagnetic : CE, directive EMC 89/ 336/ EEC

Compatibility

STANDARD INPUTS/ OUTPUT

Microswitch : V15S05-CZ100A05-01 (5A) Honeywell

Proximity : NJ2-V3-N (NAMUR sensor for Intrinsically safe application) P & F

NBB3-V3-Z4 (24V DC, 100mA) P & F

Solenoid valves : 24V DC, 300mA (8W max)







PROFIBUS-DP/PA, DIVICENET, CANOPEN

TYPE 'F' LIMITSWITCH BOX WITH AS-Interface

- · The 'F' limitswitch box has been designed to overcome lengthy wiring. It is easy to operate, maintain and control
- · The limitswitch is configured to exchange data through the fieldbus using Actuator Sensor Interface
- · The fieldbus connectivity is achieved by using 2-wire interface depending upon network topology

COMMUNICATION CHARACTERISTICS

Protocol : AS-Interface using V2.1/3.0 profile insert : 4I/4O simple addressing

Transmission
 Bus Structure
 ASI flat cable/ Unshield 2-wire
 Line/ Star/ tree using repeaters

Max. No. of slaves : 31

• Input/ output per box: 2 Inputs/ 2 Outputs (4 Inputs/ 4 Outputs optional)

Bus cable length
 Slave addressing
 100m/ 300m with repeaters
 Hand held addressing unit

ELECTRICAL CHARACTERISTICS

Supply voltage : 24V DC+/ - 10% with max 15% ripple

Bus consumption : < 250 mA
Solenoid consumption : Up to 1W
Protection : IP55

• Supply connection (24V) : Flat with vampire type connector 5 pin male

Earthing : On the box

• Electromagnetic compatibility: CE, directive EMC 89/ 336/EEC

STANDARD INPUTS/ OUTPUT

Microswitch : V15S05-CZ100A05-01 (5A) Honeywell

• Solenoid valves : 24V DC, 40 mA (1W max)



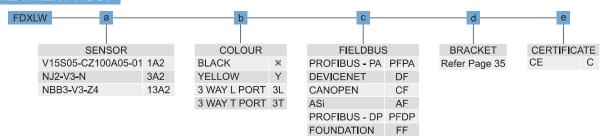


VERSATILE **LIMITSWITCH**

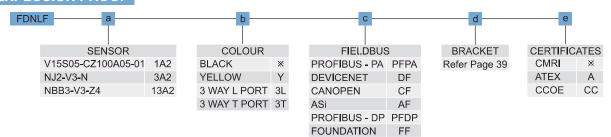
PROFIBUS-DP/PA, DIVICENET, CANOPEN

ORDERING EXAMPLE

WEATHER PROOF



EXPLOSION PROOF



ORDERING EXAMPLE

MODEL: FDNLF13A2 - Y - PFDP - B1

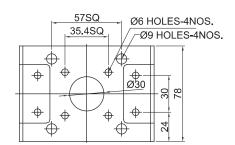
Explosion proof housing with profibus-DP interface Digital input with PEPPERL+FUCHS Proximity, Sensor NBB3-V3-Z4 200 mAmp, 24V DC with 2 built in Solenoid Driver 24V DC, max 300 mA

ORDERING CODE FOR INDICATOR





MOUNTING BRACKET

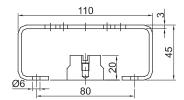


ORDERING CODE MATERIAL OF BRACKET

SS 304	MS
B1	M1

ACCESSORY

M5 X 10 - HEXAGON BOLT
M6 X 12 - HEXAGON BOLT

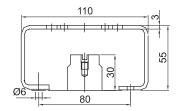


ORDERING CODE MATERIAL OF BRACKET

SS 304	MS
B21	M21

ACCESSORY

M5 X 10 - HEXAGON BOLT
M6 X 12 - HEXAGON BOLT

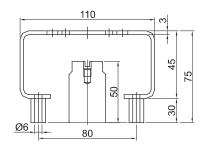


ORDERING CODE MATERIAL OF BRACKE

MATERIAL OF BRA	ACKE
SS 304	MS
B3	M3

ACCESSORY

M5 X 40 - HEXAGON BOLT
M6 X 12 - HEXAGON BOLT
MS/ ALUMINIUM BUSH 30mm HEIGHT

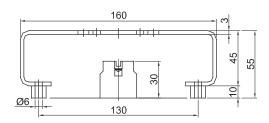


ORDERING CODE MATERIAL OF BRACKET

MATERIAL OF BRACKET		
SS 304	MS	
B132	M132	

ACCESSORY

M5 X 20 - HEXAGON HEAD BOLT M6 X 12 - HEXAGON HEAD BOLT MS/ ALUMINIUM BUSH 10mm HEIGHT



ORDERING CODE MATERIAL OF BRACKET SS 304 MS

SS 304	MS
B133	M133

ACCESSORY

M5 X 40 - HEXAGON HEAD BOLT M6 X 12 - HEXAGON HEAD BOLT MS/ ALUMINIUM BUSH 30mm HEIGHT

