

# VERSATILE LIMITSWITCH



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EC94/9  
ATEX



**ROTEX**  
CONTROLS, INC.

## DXLW-PF Weather Proof Limit Switch PROFIBUS-DP Protocol

- Weather proof type 'W' limit switch box has been designed to overcome lengthy wiring. It is easy to operate, maintain and control.
- The limit switch box is configured to exchange data through field bus using Profibus-DP protocol.
- Field bus connectivity is achieved by using RS 485 interface 5 core cable.
- Solenoid termination inside enclosure is standard.

### COMMUNICATION CHARACTERISTICS

Protocol	: PROFIBUS-DP, DIN 19245-Part 3-EN50170
Transmission	: Shielded and twisted pair
Bus Structure	: Line or tree using repeaters
Max # of Slaves	: 63
Input/ output per Box	: 2 Outputs/ 2 Inputs
Bus Cable Length	: 1,200m at 9.6 KPS and 100m at 12 Mbps
Field Communication	: By rotary switch



### ELECTRICAL CHARACTERISTICS

Supply Voltage	: 24 V DC +/- 10% with max 15% ripple
Bus Consumption	: <150 mA
Solenoid Consumption	: Up to 8 Watts
Protection	: IP 55
Supply Connection (24V)	: M8 socket 4 pin male
Bus Connection	: IN: 5 pin M12-B male OUT : 5 pin M12-B female
Ground Connection	: Ground screw on enclosure exterior
Electromagnetic Compatibility	: CE, Directive EMC 89/336/EEC

### ORDERING OPTIONS

Series	Switch	Qty. Switches		Conduit Entry		Body/Cover	Protocol		Bracket		Certificates	
DNLF		1	4R	1/2" NPT	B	Aluminum-Black	PF	Profibus-DP	CM	CMRI		
		2	6R	3/4" NPT	Y	Aluminum-Yellow			CC	CMRI CCOE		
			3M	M20X1.5	L	Aluminum-Blue			C	CE		
					B5	CF8M Stainless Steel						

CODE	MAKE	MODEL	RATING
1A	Honeywell	V5SC010EN3D	24 VDC, 5Amp
3A	P & F	NJ2 V3N	8 VDC, 3mA, NC IS
13A	P & F	NBB3 V3 Z4	10-60VDC, 100mA, NO

Refer to Bracket Selection Page

### ORDERING EXAMPLE

- DNLF-13A2-4R-Y-PF
- Explosion proof box provided with (2) PEPPERL+FUCHS flat switches, DC output, each with one NO, 1/2" NPT conduit entries, yellow enclosure. With PROFIBUS-DP Protocol

# VERSATILE LIMITSWITCH



## DNLF-PF Explosion Proof Limit Switch PROFIBUS-DP Protocol

- Explosion proof type 'F' limit switch box has been designed to overcome lengthy wiring. It is easy to operate, maintain and control.
- The limit switch box is configured to exchange data through field bus using Profibus-DP protocol.
- Field bus connectivity is achieved by using RS 485 interface 5 core cable.
- Solenoid termination inside enclosure is standard.

### COMMUNICATION CHARACTERISTICS

Protocol	: PROFIBUS-DP, DIN 19245-Part 3-EN50170
Transmission	: Shielded and twisted pair
Bus Structure	: Line or tree using repeaters
Max # of Slaves	: 63
Input/ output per Box	: 2 Outputs/ 2 Inputs
Bus Cable Length	: 1,200m at 9.6 KPS and 100m at 12 Mbps
Field Communication	: By rotary switch



### ELECTRICAL CHARACTERISTICS

Supply Voltage	: 24 V DC +/- 10% with max 15% ripple
Bus Consumption	: <150 mA
Solenoid Consumption	: Up to 8 Watts
Protection	: IP 55
Supply Connection (24V)	: M8 socket 4 pin male
Bus Connection	: IN : 5 pin M12-B male OUT : 5 pin M12-B female
Ground Connection	: Ground screw on enclosure exterior
Electromagnetic Compatibility	: CE, Directive EMC 89/336/EEC

### ORDERING OPTIONS

Series	Switch	Qty. Switches	Conduit Entry	Body/Cover	Protocol	Bracket	Certificates
DNLF		1	4R 1/2" NPT	B Aluminum-Black	PF Profibus-DP	Refer to Bracket Selection Page	CM CMRI
			6R 3/4" NPT	Y Aluminum-Yellow			CC CMRI CCOE
		2	3M M20X1.5	L Aluminum-Blue	C CE		
				B5 CF8M Stainless Steel			

CODE	MAKE	MODEL	RATING
1A	Honeywell	V5SC010EN3D	24 VDC, 5Amp
3A	P & F	NJ2 V3N	8 VDC, 3mA, NC IS
13A	P & F	NBB3 V3 Z4	10-60VDC, 100mA, NO

### ORDERING EXAMPLE

- DNLF-13A2-4R-Y-PF
- Explosion proof box provided with (2) PEPPERL+FUCHS flat switches, DC output, each with one NO, 1/2" NPT conduit entries, yellow enclosure. With PROFIBUS-DP Protocol.



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