



Weyn-Lauwers N.V.

Industriepark-Noord 12
B - 9100 SINT-NIKLAAS

Tel. : 00 32 (0)3 776.34.13
Fax : 00 32 (0)3 778.09.52
weynlauwers@weynlauwers.be
www.weynlauwers.be

inductieve eindschakelaars P&F NBN3-F25-E8-V1

Inductive sensor

NBN3-F25-E8-V1



Model Number

NBN3-F25-E8-V1

Features

- Direct mounting on standard actuators

Accessories

BT32

Activator for F25 series

BT32XS

Activator for F25 series

BT32XAS

Activator for F25 series

BT33

Activator for F25 series

BT34

Activator for F25 series

V1-G

Female connector, M12, 4-pin, field attachable

V1-W

Female connector, M12, 4-pin, field attachable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

Technical Data

General specifications

Switching element function		PNP	Dual NO
Rated operating distance	s_n	3 mm	
Installation		flush mountable	
Output polarity		DC	
Assured operating distance	s_a	0 ... 2.43 mm	
Actual operating distance	s_r	2.7 ... 3.3 mm typ.	
Reduction factor r_{AI}		0.5	
Reduction factor r_{Cu}		0.4	
Reduction factor r_{304}		1	
Reduction factor r_{317}		1.1	

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 500 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		all connections
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0	≤ 25 mA
Time delay before availability	t_v	≤ 500 ms
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow

Functional safety related parameters

MTTF _d	870 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

Connection type	Connector M12 x 1, 4-pin
Housing material	PBT
Sensing face	PBT
Degree of protection	IP67
Tightening torque, fastening screws	M5 x 25 : 2.7 Nm
Note	Mounted on mechanical drive

Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

EAC conformity	TR CU 020/2011
UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated ≤ 36 V

Dimensions

