



PFK

PFK1/BP-3HV5

Ind.M18,PNP-NO+NC,M12 Plug,Sch-LD

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	8mm
Operanting distance	0...6,48mm
Standard target	24x24mm FE360
Correction Factor	copper: 0,20 / aluminium: 0,30 / brass: 0,40 / stainless steel: 0,65
Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Application

Description	M18 standard flush mount
Functions	Proximity

Outputs

Output type	PNP
-------------	-----

Output Function	NO + NC
-----------------	---------

Switching frequency	1,5kHz
---------------------	--------

Electrical data

Operating Voltage	10...30Vdc
-------------------	------------

No-Load supply current	$\leq 15\text{mA}$
------------------------	--------------------

Load current	$\leq 200\text{mA}$
--------------	---------------------

Leakage current	$\leq 10\mu\text{A}$
-----------------	----------------------

Output voltage drop	$\leq 2\text{V @}200\text{mA}$
---------------------	--------------------------------

Max ripple content	$\leq 10\%$
--------------------	-------------

LED indicators	Yellow LED output state
----------------	-------------------------

Time delay before availability	$\leq 50\text{ms}$
--------------------------------	--------------------

Short-circuit protection	Yes
--------------------------	-----

Reverse Polarity Protection	Yes
-----------------------------	-----

Impulsive Overvoltage Protection	Yes
----------------------------------	-----

Protection against inductive loads	Yes
------------------------------------	-----

Mechanical data

Mounting	Shielded
----------	----------

Material	AISI316L Stainless Steel
Housing material	AISI316L Stainless Steel
Weight	55g
Connections	M12 Plug
Active Head Material	PPS
Tightening torque	50Nm
Diameter/Dimension	M18

Test/Approvals

Approvals	CE cULus ECOLAB DIVERSY
EMC compatibility	IEC 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27

Accessories

Supplied Accessories	2 nuts M18x1
----------------------	--------------

Generical Data

Dimensions	M18 x 1 / L = 63,1mm
Operating Temperature	-40°C...+80°C (up to 100°C for short exposure during cleaning process)
Mechanical Protection	IP67

**Datasensing
S.r.l.**

Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com

**date of
printing**

10/08/2026
03:43:50