

description

For many tasks in the automation industry it is necessary to know the sequence of movements in the pneumatic cylinders and to detect accurately the position of the pistons. A choice of fully electronic sensors as well as reed switches is available to accomplish this.

Under certain conditions, e.g. high vibration, high switching frequencies or where very precise switch-points are required, reed switches have severe limitations. The lack of shortcircuit protection, the high sensitivity to inductive voltage spikes and especially the mechanical wear of the switch contacts all give rise to frequent problems in day-to-day use. These weaknesses have led to a demand from industrial users for a sensor that will guarantee long-term troublefree operation and avoid machine downtime with the resulting loss of production. To this end **ipf electronic** offers a range of magnetic cylinder sensors, which can be used to detect the position of the pistons within pneumatic cylinders. They guarantee the highest level of operation safety and reliability thanks to the absolutely wear-free mode of operation.

The electronic cylinder sensors have been designed to work with cylinders from all major manufacturers and are directly interchangeable with reed switches that use 3-wire technology.

application examples

position recognition of a cylinder piston

limit of travel enquiry





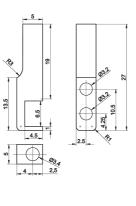


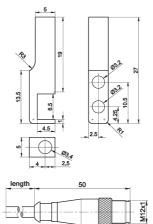
1400 cylinder sensors

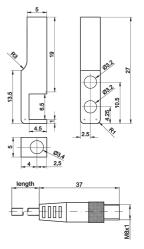


article-no. connection	MZ0701A2 cable	MZ070122 M12-cable connector PUR, 300mm	MZ070172 M8-cable connector PUR, 300mm
operating temperature	-25 +70°C	-25 +70°C	-25 +70°C
article-no.	-	MZ0701E2	MZ0701F2
connection		M12-cable connector PUR, 600mm	M8-cable connector PUR, 600mm
operating temperature		-25 +70°C	-25 +70°C
article-no.	-	MZ0701J2	-
connection		M12-cable connector PUR, 1000mm	
operating temperature	-	-25 +70°C	-

Preferential types are printed **bold!**







ΤΕCΗΝΙζΑΙ ΠΑΤΑ

middle area	middle area	middle area
pnp, no	pnp, no	pnp, no
10 30V DC	10 30V DC	10 30V DC
≤ 10mA	≤ 10mA	≤ 10mA
200mA	200mA	200mA
2.0V DC	2.0V DC	2.0V DC
typical 1mm	typical 1mm	typical 1mm
± 0.1mm	± 0.1mm	± 0.1mm
1kHz	1kHz	1kHz
yellow LED	yellow LED	yellow LED
+	+	+
+	+	+
aluminium	aluminium	aluminium
5x6.5x27mm	5x6.5x27mm	5x6.5x27mm
-25 +70°C	-25 +70°C	-25 +70°C
IP67	IP67	IP67
cable, 2m, PUR	M12-connector, 3-pin	M8-connector, 3-pin
-	e.g. VK200025 , 2m, straight, PUR	e.g. VK200075 , 2m, straight, PUR
positive stop AM000076 cable clip AM000087	positive stop AM000076 cable clip AM000087	positive stop AM000076 cable clip AM000087
	pnp, no 10 30V DC ≤ 10mA 200mA 200mA 2.0V DC typical 1mm ± 0.1mm 1kHz yellow LED + + aluminium 5x6.5x27mm -25 +70°C IP67 cable, 2m, PUR - positive stop AM000076	pnp, no pnp, no 10 30V DC 10 30V DC ≤ 10mA ≤ 10mA 200mA 200mA 200V DC 2.0V DC typical 1mm typical 1mm ± 0.1mm ± 0.1mm 1kHz 1kHz yellow LED yellow LED + + aluminium aluminium 5x6.5x27mm 5x6.5x27mm -25 +70°C -25 +70°C IP67 IP67 cable, 2m, PUR M12-connector, 3-pin - e.g. VK200025, 2m, straight, PUR positive stop AM000076 positive stop AM000076



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Subject to alteration! E-Mail: info@ipf-electronic.com Version: April 2009



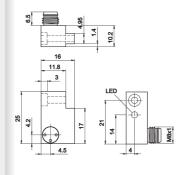


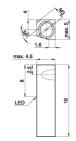
cylinder sensors 1400

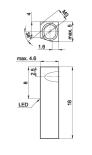
article-no. connection	MZ070173 M8-connector	MZ0701A6 cable, 2m PUR	MZ070126 M12-cable connector
operating temperature	-25 +70°C	-25 +70°C	PUR, 300mm -25 +70°C
article-no.	-	-	MZ0701E6
connection			M12-cable connector PUR, 600mm
operating temperature		-	-25 +70°C
article-no.	-	-	MZ0701J6
connection	-	-	M12-cable connector PUR, 1000mm

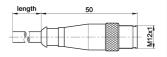
operating temperature

Preferential types are printed **bold!**









TECHNICAL DATA

TECHNICAL DATA			
active sensor surface	middle area	middle area	middle area
output signal	pnp, no	pnp, no	pnp, no
operating voltage	10 30V DC	10 30V DC	10 30V DC
current consumption (w/o load)	≤ 15mA	≤ 15mA	≤ 15mA
output current (max. load)	200mA	200mA	200mA
voltage drop (max. load)	2.0V DC	2.0V DC	2.0V DC
hysteresis	typical 1mm	typical 1mm	typical 1mm
repeatability	± 0.1mm	± 0.1mm	± 0.1mm
sampling frequency	1kHz	1kHz	1kHz
status display	yellow LED	yellow LED	yellow LED
short-circuit protection	+	+	+
reverse polarity protection	+	+	+
housing material	aluminium	aluminium	aluminium
design	10.2x16x25mm	5x4.6x18mm	5x4.6x18mm
operating temperature	-25 +70°C	-25 +70°C	-25 +70°C
system of protection (EN 60529)	IP67	IP67	IP67
connection	M8-connector, 3-pin	cable, 2m, PUR	M12-connector, 3-pin
connection accessories	e.g. VK200075 , 2m, straight, PUR		e.g. VK200025 , 2m, straight, PUR
mounting accessories	-	positive stop AM000076 cable clip AM000087	positive stop AM000076 cable clip AM000087

CÈ

Fon +49 (0) 2351 / 9365-0 Fax +49 (0) 2351 / 936519



1400 cylinder sensors

PUR, 300mm tellon, 300mm operating temperature -25 + 70°C - apprecision M20701F6 - M2070356 connection M8-cable connector - M20703F6 presting temperature -25 + 70°C - - -25 + 130°C urticle-no. M20703K6 - - - - oranection M8-cable connector - - - - perating temperature -25 + 70°C - - - - perating temperature -25 + 70°C - - - - perating temperature -25 + 70°C - - - - perating temperature -25 + 70°C - - - - referential types are onintex bold umm umm umm umm umm umm umm umm umm - - referential types are onintex bold pnp.no pnp.no pnp.no pnp.no pnp.no	article-no.	MZ070176	MZ070186	-
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referential types are inited bold! Image: Section of the sectin of the section of the section of the section o	onnection		-	
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	5			cable clip AM000087
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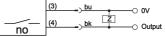


cylinder sensors 1400

connection cable device

PNP	(1)	bn	—0 +Vs
	(3)	bu 🖕	—o ov
no	(4)	bk Z	-O Output

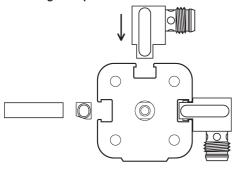




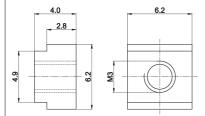
wire colors: bn = brown (1), bu = blue (3), bk = black (4)

cable connector with rotatable outside thread

mounting example



positive stop AM000076



ACCESSORIES

article-no.	description	material
AM000076	positive stop for T-groove	zinc
AM000086	cable clip for T-groove	plastic

This data sheet contains the standard versions only. Kindly request the availability of other output- and connection functions.

We will be pleased to supply the matching cable socket for your devices with connector. Please refer to the list in catalog chapter "accessories" under "cable sockets **ipf**-SENSORFLEX®" or search our website for "VK".

Warning: Never use these devices in applications where the safety of a person depends on their functionality.





1400 cylinder sensors

notes



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