



intelligent pressure / temperature sensor

with unique software programming function

ipf electronic gmbh · Kalver Straße $25 - 27 \cdot 58515$ Lüdenscheid · Germany fon +49 (0) $2351/9365-0 \cdot fax$ +49 (0) 2351/936519 www.ipf-electronic.com · e-mail: info@ipf-electronic.com









A sensor like no other!

You will find a host of innovative functions in the intelligent ipf pressure and temperature sensors. Highest levels of precision and highly reliable switching outputs are combined with straightforward programmability and software which is convenient to use.

Make the most of the advantages of this unique combination with the ipf quality you expect.

MAXIMUM PRECISION

Measure values with a tolerance of +0.5%!

OPTO-USB-INTERFACE

You can also program the sensor device when the device is operational, not just in an idle state.

COUNTER

The sensor has an internal counter which counts each switching operation at output 2.

BANDWIDTH

The DW35 measures from 0 to 600bar and the DW36 measures from -1 to +1bar.
The YT35 has a measurement range of -40 to + 300°C.

STANDARDS

The sensors adhere to various automotive standards and the alarm output conforms to the DESINA standards.

Couldn't be simpler operability



Use the film keyboard in order to carry out fast and uncomplicated settings on the sensor. Change the two independent switching points (hysteresis and output logic) as well as the time delay function. The settings can be clearly read on the four digit LED display.

You can even simulate various pressures without applying pressure to the sensor!
The test function can be controlled via the PC.



HIGHLY RELIABLE

bar

Esc

The switching outputs deliver up to 1A per channel. Output 2 can be switched between the switch output, analog output and alarm output.

> Enter Set

DW 35 31 14

100bar, 12-32VDC

d - Tet 02351/9365-0

dechouse

PARAMETERABLE ANALOG OUTPUT

According to the sensor, select between factors 1:5 (DW35/YT35) or 1:2 (DW36) with the highest resolution up to 12 bit (14 bit as an option).

CLEAR AND PRECISE

Thanks to the high level of brightness, the display can be read very easily.

THE LATEST **PROCESSORS**

16 bit AD converters provide you with top results.

PC SOFTWARE

Via this software, you are able to simply and clearly set the desired functions of the sensors.

MAXIMUM FLEXIBILITY

Following installation, the sensor body can be rotated by 350° and the sensor display can be rotated by 180° by means of the software.

PRESSURE PICK-UP

The parts that come into contact with the media are made from stainless steel 1.4435 or ceramics and as such, are suitable for gaseous and fluid media.



Comfortable software

From the first moment on, all functions can be seen straight away and are quickly changeable.

GRAPHIC INTERFACE

The software user interface is excellently represented as graphics; this makes it possible to operate easily.

TEST FUNCTION

The test function offers a simple and quick possibility to check the function of the device and/or the analyses which have been activated. In connection with this, each incidence of pressure can be simulated by the operating buttons or the PC software.

DATA LOGGER

The software is equipped with an integrated data logger. This enables measured values to be recorded. The data that are established are logged in an Excel file.





LIKE ON A CONVEYOR BELT

Set parameters can be saved in a file and are transferrable to other sensors at no time at all.



VERY SWIFT

Quick detection of the peak pressures is possible within 2msec.

SELF CRITICAL

The pressure sensor's automatic self-test system exhibits the following functions: Falling short of or exceeding the measurement range, short-circuit output 1 / output 2, defective pressure sensor, internal error and open analog output. The onward transmission of the faults to the control can take place via the alarm or analog output.



Complex test procedure

In order to satisfy the high requirements with respect to precision, linearity etc., each sensor is individually aligned and/or calibrated through appropriate specifications.

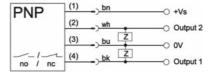
The internal electronics offer a high level of flexibility and operational security.

All settings are implemented digitally, i.e. no potentiometer etc. is used.

This makes changes and special adjustments possible at any time without any need for the device to be opened.

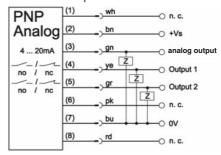


connection 4-pin



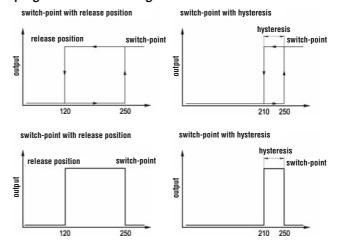
wire colors: bn = brown (1), wh = white (2), bu = blue (3), bk = black (4)

connection 8-pin



wire colors:
wh = white (1),
bn = brown (2),
gr = green (3),
ye = yellow (4),
gy = grey (5),
pk = pink (6),
bu = blue (7)
rd = red (8)
n.c. not connected

programmable switching functions



pressure sensors



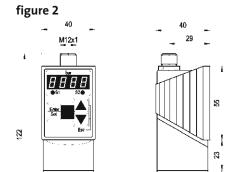
figure 1

40

M12x1

29

SW22



SW22

DW35 G1/4A

22

DW36 G1/8

pressure ranges [bar] overload [bar] see list of articles overload [bar] overload [bar] overload [bar] overload [bar] output overload [bar] overload [TECHNICAL DATA	
overload [bar] 150% of the nominal pressure (Pn) for the DW35 (6bar for the DW36) output 0/4 20mA, 20 0/4mA / 2x pnp no / nc operating voltage output current (max. load) current consumption (w/o load) voltage drop (max. load) delay time adjustment range 1 100% of the accumulated value switch-point 0 20sec on- and off-delayed adjustment range 1 100% of the accumulated value release position max. 125Hz repeatability analog output burden error recognition rise time adjustable damping linearity deviation system pressure display adjustable display damping switching function display short-circuit protection housing material design operating temperature temperature drift system of protection (EN 60529) pt. 20	TECHNICAL DATA	
output 0/4 20mA, 20 0/4mA / 2x pnp no / nc operating voltage 12 32V DC output current (max. load) 1A current consumption (w/o load) < 60mA voltage drop (max. load) 2 20sec on- and off-delayed adjustment range 1 100% of the accumulated value switch-point 0 99% of the accumulated value release position max. 125Hz repeatability 2 20.1% of the accumulated value release position max. 125Hz repeatability 3 20.1% of the accumulated value analog output 4 20.1% of the accumulated value analog output 5 20.2% of the accumulated value 3 20.2% of the accumulated value 3 20.25% of Pn system pressure display 3 20.25% of Pn system pressure display 4 x 7 segment LED 3 20.26 2 20.2 2 20.2 2 20.2 2 20.2 2 20.2 2 20.2 2 20 20.2 2 20 20.2 2 20 20 20.2 2 20 20.2 2 20 20.2 2 20 20.2 2 20 20.2 2 20 20.2 2 20 20.2 2 20 20.2 2 20 20.2 2 20 20.2 2 20 20.2 2 20 20.2 2 20 20.2 2 20 20 20.2 2 20 20 20.2 2 20 20.2 2 20 20 20.2 2 20 20.2 2 20		
operating voltage 12 32V DC output current (max. load) 1A current consumption (w/o load) < 60mA	overload [bar]	
output current (max. load) current consumption (w/o load) voltage drop (max. load) delay time adjustment range adjustment range adjustment range burden error recognition rise time adjustable damping linearity deviation system pressure display adjustable display damping switching function display short-circuit protection housing material design operating temperature design operating temperature temperature dirft system of protection (EN 60529) connection connection accessories every content of the accumulated value switch-point 0 20sec on- and off-delayed 1 100% of the accumulated value switch-point 0 299% of the accumulated value and of the accumulated value max. RL [\Omega] = (Ub-8V)/20mA in case of line break, overload, measurement error 5msec (10 90% of the accumulated value) 0 20sec linearity deviation max. ±0.25% of Pn system pressure display 4 x 7 segment LED 3	output	0/4 20mA, 20 0/4mA / 2x pnp no / nc
current consumption (w/o load) voltage drop (max. load) delay time adjustment range 1 100% of the accumulated value switch-point 0 99% of the accumulated value release position sampling frequency repeatability analog output burden error recognition rise time adjustable damping linearity deviation system pressure display adjustable display damping burction display asher-circuit protection reverse polarity protection housing material design operating temperature design operating temperature -20+80°C temperature drift system of protection (EN 60529) lP65 connection connection accessories e.g. VK205325, 2m, straight, 8-wire, PUR e.g. VK205A25, 2m, straight, 8-wire, PUR optical interface 0 20sec 0 20sec 0 20sec 0 4×0°C	operating voltage	12 32V DC
voltage drop (max. load) < 2.0V DC	output current (max. load)	1A
delay time 0 20sec on- and off-delayed adjustment range 1 100% of the accumulated value switch-point 0 99% of the accumulated value release position sampling frequency max. 125Hz repeatability < ±0.1% of the accumulated value	current consumption (w/o load)	< 60mA
adjustment range $ \begin{array}{c} 1 \dots 100\% \text{ of the accumulated value} & \text{switch-point} \\ 0 \dots 99\% \text{ of the accumulated value} & \text{switch-point} \\ 0 \dots 99\% \text{ of the accumulated value} & \text{release position} \\ \text{max. } 125\text{Hz} \\ \text{vepeatability} & \text{velo1\% of the accumulated value} \\ \text{analog output} & \text{max. RL} \left[\Omega\right] = \text{(Ub-8V)/20mA} \\ \text{in case of line break, overload, measurement error} \\ \text{5msec} \left(10 \dots 90\% \text{ of the accumulated value}\right) \\ \text{0} \dots 20\text{sec} \\ \text{linearity deviation} & \text{max. \pm 0.25\% of Pn} \\ \text{system pressure display} & \text{4 x 7 segment LED} \\ \text{adjustable display damping} & \text{0} \dots 20\text{sec} \\ \text{switching function display} & \text{2 x red LED} \\ \text{short-circuit protection} & \text{+} \\ \text{reverse polarity protection} & \text{+} \\ \text{housing material} & \text{PA6.6, polyester} \\ \text{design} & \text{Ø38x118mm} \\ \text{operating temperature} & \text{-20} \dots + 80^{\circ}\text{C} \\ \text{temperature drift} & \text{velo2\% / 10K, (-10 + 70^{\circ}\text{C})} \\ \text{system of protection} & \text{(EN 60529)} \\ \text{connection} & \text{M12-connector 4-pin / M12-connector 8-pin} \\ \text{connection accessories} & \text{e.g. VK205325, 2m, straight, 4-wire, PUR} \\ \text{e.g. VK205A25, 2m, straight, 8-wire, PUR} \\ \text{optical interface} & \text{opto-adapter to USB + software AD000011} \\ \end{array}$	voltage drop (max. load)	< 2.0V DC
0 99% of the accumulated value release position sampling frequency max. 125Hz repeatability < ±0.1% of the accumulated value	delay time	0 20sec on- and off-delayed
repeatability analog output burden error recognition rise time adjustable damping linearity deviation system pressure display adjustable display damping adjustable display damping switching function display short-circuit protection housing material design operating temperature design operating temperature temperature drift system of protection (EN 60529) connection connection accessories e.g. VK205A25, 2m, straight, 8-wire, PUR optical interface max. RL [Ω] = (Ub-8V)/20mA in case of line break, overload, measurement error 5msec (10 90% of the accumulated value) 0 20sec 10 20sec 11 - 20sec 12 x red LED 13 x red LED 14 x 7 segment LED 15 x red LED 16 x 20sec 17 x red LED 18 x x red LED 19 x red LED 10 x red L		
analog output burden error recognition rise time adjustable damping linearity deviation system pressure display adjustable display damping adjustable display damping switching function display short-circuit protection reverse polarity protection housing material design operating temperature temperature drift system of protection (EN 60529) connection connection accessories max. RL [\Omega] = (Ub-8V)/20mA in case of line break, overload, measurement error 5msec (10 90% of the accumulated value) 0 20sec 10 20sec 11 x 7 segment LED 12 x red LED 13 x 7 segment LED 14 x 7 segment LED 15 x 7 segment LED 16 x 8 x 1 ED 16 x 8 x 1 ED 17 x 8 x 1 ED 18 x 1 x 8 x 1 ED 18 x 8 x 1 ED 18 x 1 x 1 x 1 ED 18		
burden error recognition rise time adjustable damping linearity deviation system pressure display adjustable display damping adjustable display adjustable damping		< ±0.1% of the accumulated value
error recognition rise time adjustable damping linearity deviation system pressure display adjustable display damping adjustable display adjustable damping adjustable display adjust	analog output	
rise time adjustable damping 0 20sec linearity deviation system pressure display adjustable display adjustable display adjustable display damping o 20sec switching function display short-circuit protection reverse polarity protection + housing material design operating temperature temperature drift system of protection (EN 60529) connection connection connection accessories psimsec (10 90% of the accumulated value) 0 20sec 2 x red LED + A 6.6, polyester ### ### ### ### ### ### ### ### ### #		max. $RL[\Omega] = (Ub-8V)/20mA$
adjustable damping linearity deviation system pressure display adjustable display damping switching function display short-circuit protection reverse polarity protection housing material design operating temperature temperature drift system of protection (EN 60529) connection M12-connector 4-pin / M12-connector 8-pin connection accessories e.g. VK205A25, 2m, straight, 4-wire, PUR optical interface opto-adapter to USB + software AD000011	S	· · · · · · · · · · · · · · · · · · ·
linearity deviation max. ±0.25% of Pn system pressure display 4 x 7 segment LED adjustable display damping 0 20sec switching function display 2 x red LED short-circuit protection + reverse polarity protection + housing material PA6.6, polyester design Ø38x118mm operating temperature -20 +80°C temperature drift < ±0.2% / 10K, (-10 +70°C) system of protection (EN 60529) IP65 connection M12-connector 4-pin / M12-connector 8-pin connection accessories e.g. VK205325, 2m, straight, 4-wire, PUR e.g. VK205A25, 2m, straight, 8-wire, PUR optical interface opto-adapter to USB + software AD000011		
system pressure display adjustable display damping o 20sec switching function display short-circuit protection reverse polarity protection + housing material design operating temperature temperature drift system of protection (EN 60529) connection M12-connector 4-pin / M12-connector 8-pin connection accessories e.g. VK205A25, 2m, straight, 4-wire, PUR e.g. VK205A25, 2m, straight, 8-wire, PUR optical interface opto-adapter to USB + software AD000011		o 20000
adjustable display damping switching function display short-circuit protection reverse polarity protection housing material design operating temperature temperature drift system of protection (EN 60529) connection connection connection accessories optical interface optical interface 0 20sec 2 x red LED + PA6.6, polyester 038x118mm -20 +80°C ± 0.2% / 10K, (-10 +70°C) IP65 Connection M12-connector 4-pin / M12-connector 8-pin e.g. VK205325, 2m, straight, 4-wire, PUR opto-adapter to USB + software AD000011	linearity deviation	
switching function display short-circuit protection reverse polarity protection + housing material design operating temperature temperature drift system of protection (EN 60529) connection connection connection accessories optical interface 2 x red LED + PA6.6, polyester Ø38x118mm -20 +80°C ± ±0.2% / 10K, (-10 +70°C) IP65 M12-connector 4-pin / M12-connector 8-pin e.g. VK205325, 2m, straight, 4-wire, PUR e.g. VK205A25, 2m, straight, 8-wire, PUR opto-adapter to USB + software AD000011		
short-circuit protection reverse polarity protection housing material design operating temperature temperature drift system of protection (EN 60529) connection connection connection accessories pA6.6, polyester ### ### ### ### ### ### ### ### ### #	, , , ,	
reverse polarity protection + housing material PA6.6, polyester design Ø38x118mm operating temperature -20 +80°C temperature drift < ±0.2% / 10K, (-10 +70°C) system of protection (EN 60529) IP65 connection M12-connector 4-pin / M12-connector 8-pin connection accessories e.g. VK205325, 2m, straight, 4-wire, PUR e.g. VK205A25, 2m, straight, 8-wire, PUR optical interface opto-adapter to USB + software AD000011		2 x red LED
housing material PA6.6, polyester design Ø38x118mm operating temperature -20 +80°C temperature drift < ±0.2% / 10K, (-10 +70°C) system of protection (EN 60529) IP65 connection M12-connector 4-pin / M12-connector 8-pin connection accessories e.g. VK205325, 2m, straight, 4-wire, PUR e.g. VK205A25, 2m, straight, 8-wire, PUR optical interface opto-adapter to USB + software AD000011		+
design	reverse polarity protection	+
operating temperature temperature drift system of protection (EN 60529) connection connection connection accessories e.g. VK205325, 2m, straight, 4-wire, PUR e.g. VK205A25, 2m, straight, 8-wire, PUR optical interface opto-adapter to USB + software AD000011	housing material	PA6.6, polyester
temperature drift system of protection (EN 60529) connection connection connection accessories e.g. VK205325, 2m, straight, 4-wire, PUR e.g. VK205A25, 2m, straight, 8-wire, PUR optical interface opto-adapter to USB + software AD000011	design	Ø38x118mm
system of protection (EN 60529) connection connection accessories e.g. VK205325, 2m, straight, 4-wire, PUR e.g. VK205A25, 2m, straight, 8-wire, PUR optical interface opto-adapter to USB + software AD000011	operating temperature	-20 +80°C
connection M12-connector 4-pin / M12-connector 8-pin connection accessories e.g. VK205325, 2m, straight, 4-wire, PUR e.g. VK205A25, 2m, straight, 8-wire, PUR optical interface opto-adapter to USB + software AD000011	temperature drift	< ±0.2% / 10K, (-10 +70°C)
connection accessories e.g. VK205325, 2m, straight, 4-wire, PUR e.g. VK205A25, 2m, straight, 8-wire, PUR optical interface opto-adapter to USB + software AD000011	system of protection (EN 60529)	IP65
connection accessories e.g. VK205325, 2m, straight, 4-wire, PUR e.g. VK205A25, 2m, straight, 8-wire, PUR optical interface opto-adapter to USB + software AD000011	connection	M12-connector 4-pin / M12-connector 8-pin
e.g. VK205A25 , 2m, straight, 8-wire, PUR optical interface opto-adapter to USB + software AD000011	connection accessories	
mounting accessories AY000060	optical interface	opto-adapter to USB + software AD000011
	mounting accessories	AY000060

article-no.	design	description	notes	housing	voltage	output	current	connection	fig.
DW36311H	36-1/8	pressure sensor	-0.,5+0.5 bar,ceramic	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 4-pin	1
DW36311J	36-1/8	pressure sensor	-1+1 bar,ceramic	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 4-pin	1
DW363110	36-1/8	pressure sensor	-10 bar,ceramic	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 4-pin	1
DW363111	36-1/8	pressure sensor	0+1 bar,ceramic	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 4-pin	1
DW35311K	35-1/4A	pressure sensor	-110bar, st. steel	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 4-pin	2
DW35311D	35-1/4A	pressure sensor	10bar, st. steel	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 4-pin	2
DW35311F	35-1/4A	pressure sensor	50bar, st. steel	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 4-pin	2
DW353114	35-1/4A	pressure sensor	100bar, st. steel	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 4-pin	2
DW35311G	35-1/4A	pressure sensor	200bar, st. steel	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 4-pin	2
DW353116	35-1/4A	pressure sensor	400bar, st. steel	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 4-pin	2
DW353117	35-1/4A	pressure sensor	600bar, st. steel	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 4-pin	2
DW36312H	36-1/8	pressure sensor	-0.5+0.5 bar,ceramic	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 8-pin	1
DW36312J	36-1/8	pressure sensor	-1+1 bar,ceramic	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 8-pin	1
DW363120	36-1/8	pressure sensor	-10 bar,ceramic	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 8-pin	1
DW363121	36-1/8	pressure sensor	0+1 bar,ceramic	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 8-pin	1
DW35312K	35-1/4A	pressure sensor	-110bar, st. steel	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 8-pin	2
DW35312D	35-1/4A	pressure sensor	10bar, st. steel	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 8-pin	2
DW35312F	35-1/4A	pressure sensor	50bar, st. steel	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 8-pin	2
DW353124	35-1/4A	pressure sensor	100bar, st. steel	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 8-pin	2
DW35312G	35-1/4A	pressure sensor	200bar, st. steel	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 8-pin	2
DW353126	35-1/4A	pressure sensor	400bar, st. steel	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 8-pin	2
DW353127	35-1/4A	pressure sensor	600bar, st. steel	polyester/st. steel	12 32V DC	pnp, no/nc, 0/4 20mA	2x1A	M12-con. 8-pin	2
AD000011	access	sories sensor, press	ure optical interface	con	nection USB, sof	ftware		1.5m cable	w/o
AY000060	access	sories sensor, pressi	ure clip						w/o

This data sheet contains the standard DC-(pnp) and analog versions only. Kindly request the availability of other output- and connection functions.

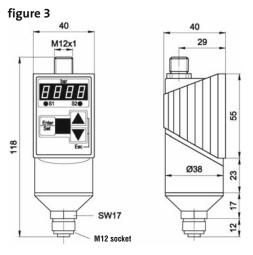
We will be pleased to supply the matching cable socket e.g. **VK205321** for your devices with connector. Please refer to the list in catalog chapter "accessories" under "cable sockets **ipf** -SENSORFLEX®" or search our website www.ipf-electronic.com for "VK".

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

temperature sensors



TECHNICAL DATA	
TECHNICAL DATA	-40 +300°C
temperature datastica	resistance thermometer PT100
temperature detection	
a v den v de	(2-, 3- or 4-wire)
output	0/4 20mA, 20 0/4mA / 2x pnp no / nc
operating voltage	12 32V DC
output current (max. load)	1A
current consumption (w/o load)	< 60mA
voltage drop (max. load)	< 2.0V DC
delay time	0 20sec on- and off-delayed
adjustment range	1 100% of the accumulated value switch-point
	0 99% of the accumulated value release position
sampling frequency	max. 125Hz
repeatability	< ±0.1% of the accumulated value
analog output	5. 5.2. (cd. 5.4.5.
burden	max. RL $[\Omega]$ = (Ub-8V)/20mA
error recognition	in case of line break, overload, measurement error
rise time	5msec (10 90% of the accumulated value)
adjustable damping	0 20sec
linearity deviation	max. ±0.25% of Pn
system pressure display	4 x 7 segment LED
adjustable display damping	0 20sec
switching function display	2 x red LED
short-circuit protection	+
reverse polarity protection	+
housing material	PA6.6, polyester
design	Ø38x118mm
operating temperature	-20 +80°C
temperature drift	< ±0.2% / 10K, (-10 +70°C)
system of protection (EN 60529)	IP65
connection	M12-connector 4-pin / M12-connector 8-pin
connection accessories	e.g. VK205325 , 2m, straight, 4-wire, PUR
	e.g. VK205A25 , 2m, straight, 8-wire, PUR
temperature connection	M12-cable socket, 4-pin,
	with rotatable coupling ring
optical interface	opto-adapter to USB + software AD000011
mounting accessories	AY000060



article-no.	design	notes	housing	voltage	output	current	connection	fig.
YT353100	Ø35	-40 +300°C	polyester/st. steel	12 32V DC	pnp,no/nc,0/4 20mA	2x1A	M12-connector, 4-pin	3
YT353120	Ø35	-40 +300°C	polyester/st. steel	12 32V DC	pnp,no/nc,0/4 20mA	2x1A	M12-connector, 8-pin	3

This data sheet contains the standard DC-(pnp) and analog versions only. Kindly request the availability of other output- and connection functions.

We will be pleased to supply the matching cable socket e.g. **VK205321** for your devices with connector. Please refer to the list in catalog chapter "accessories" under "cable sockets **ipf** -SENSORFLEX®" or search our website www.ipf-electronic.com for "VK".

temperature sensors

pressure (max.)



TECHNCIAL DATA	RESISTANCE THERMOMETER
temperature (medium)	-30 +350°C
assembly	close-packed magnesium oxide isolation
length	100 / 150 / 250 / 350 / 500 / 1000mm
operating voltage	connection to YT353100 or YT353120
resistance value	100Ω at 0°C according to IEC 751 class A
measuring accuracy	±0.06Ω at 0°C ±0.15°C
hysteresis	depending on medium
isolation resistance	100Ω at 100Vcc
bending radius	min. 9mm
outer diameter	Ø3mm
outer jacket material	stainles steel 1.4401

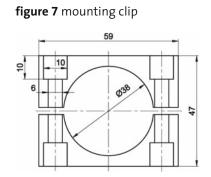
TECHNICAL DATA	SCREW-IN SLEEVE
temperature (medium)	-40 +300°C
length	40 / 100 / 900mm
mounting connection	G¼" or G½" according to DIN ISO 228
outer diameter	Ø5mm
material	stainles steel 1.4401
ring socket material	fixing (PT100) with stainles steel ring

100bar at +350°C

M12x1

figure 4

figure 5 figure 6



artikel-no	design / [L]	notes	connection	fig.
YT036020	Ø3 / 100 long	-30 +350°C / 4-wire, PT100	M12-connector, 4-pin	4
YT036021	Ø3 / 150 long	-30 +350°C / 4-wire, PT100	M12-connector, 4-pin	4
YT036022	Ø3 / 250 long	-30 +350°C / 4-wire, PT100	M12-connector, 4-pin	4
YT036023	Ø3 / 350 long	-30 +350°C / 4-wire, PT100	M12-connector, 4-pin	4
YT036024	Ø3 / 500 long	-30 +350°C / 4-wire, PT100	M12-connector, 4-pin	4
YT036025	Ø3 / 1000 long	-30 +350°C / 4-wire, PT100	M12-connector, 4-pin	4
AT000001		screw-in sleeve 1/4" 100 long		5
AT000002		screw-in sleeve 1/2" 100 long		6
AT000003		screw-in sleeve 1/2" 40 long		6
AT000005		screw-in sleeve 1/4" 400 long		5
AT000004		adapter for tube fixing YT35, hose clip needed		w/o
AD000011	accessories	optical interface connection USB, software	1.5m cable	w/o
AY000060	accessories	mounting clip Ø38mm		7





ipf electronic gmbh

Kalver Straße 25 - 27 58515 Lüdenscheid Germany

fon +49 (0) 2351 / 93 65 -0 fax +49 (0) 2351 / 93 65 - 19

e-mail info@ipf-electronic.com www.ipf-electronic.com

worldwide

ipf electronic gmbh – export division

Kalver Straße 25 - 27 58515 Lüdenscheid Germany BRINKMANN HENRICH MEDIEN GMBH · MEINERZHAGEN

fon +49 (0) 2351 / 9 85 97 - 0 fax +49 (0) 2351 / 9 85 97 - 29

e-mail export@ipf-electronic.com