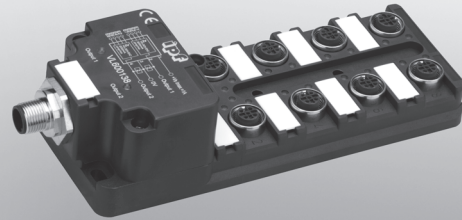


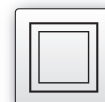
design 60 x 122 x 41.5mm  
60 x 172 x 41.5mm

logic distributor	1 x 4-way	AND / OR
	2 x 2-way	AND / OR
	1 x 8-way	AND / OR
	2 x 4-way	AND / OR



- ✓ flat robust design
- ✓ 4-pin M12-connector for the connection line to the control unit
- ✓ status displays by LED
- ✓ system of protection IP67
- ✓ simple vibration-proof connection of sensor leads

**AND / OR logic operation on location minimized amount of cabling**



**description**

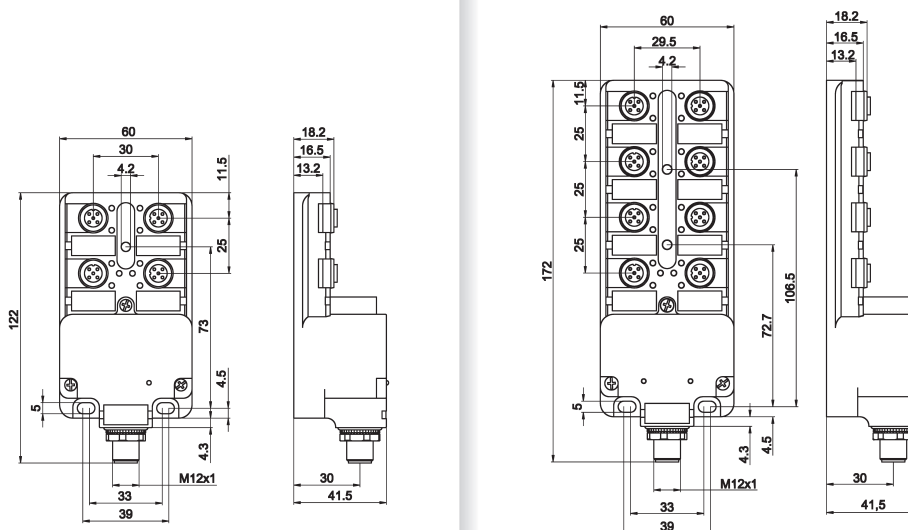
It is often the case, that the signals of many sensors are linked in an application in order to provide a statement about an operational state. If this linkage is adopted in the control unit, it is necessary to run the signals of each sensor up until there via leads, and process them in the control program. In many cases, it would be sufficient to link the sensor signals to one another on-site and only transmit one linked end-signal to the control unit. ipf electronic logic distribution terminals are used for this purpose. According to the module, up to 8 sensors can be connected and logically linked to one another. AND and OR versions are available as logical variants. The

user can directly see which signals are pending and/or which are missing (as the case may be) by means of LED status display of the logic modules. The status of the linked end signals is similarly shown via output LEDs. The 2 x 2-way / 2 x 4-way types have two separated signal outputs. In these types the input signals of the right and left module halves are linked independent from each other. If, in the case of an AND module, an input slot cannot be taken up by a sensor, a so-called "jumper" plug can be supplied.

**application examples**

- ▶ signal linkage of multiple sensors

article-no.	VL600104	VL600108
output	AND-linked, 4-way	AND-linked, 8-way
article-no.	VL600114	VL600118
output	AND-linked, 2 x 2-way	AND-linked, 2 x 4-way
article-no.	VL600124	VL600128
output	OR-linked, 4-way	OR-linked, 8-way
article-no.	VL600134	VL600138
output	OR-linked, 2 x 2-way	OR-linked, 2 x 4-way



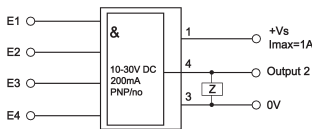
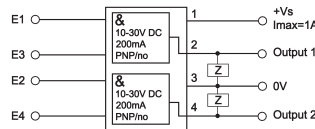
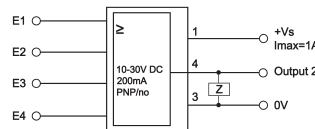
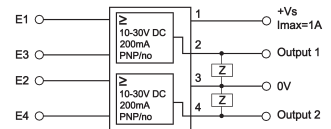
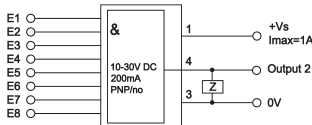
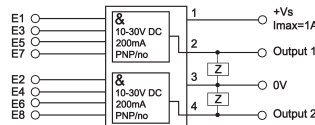
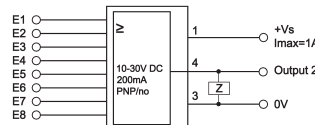
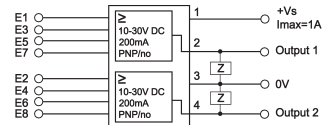
**TECHNICAL DATA**

input	pnp, (signal on pin 4)	pnp, (signal on pin 4)
output	see above	see above
operating voltage	10 ... 30V DC	10 ... 30V DC
current consumption (max. load)	1A	1A
output current (max. load)	200mA per output	200mA per output
insulation resistance	> 10 <sup>9</sup> Ω	> 10 <sup>9</sup> Ω
display (function)	operating voltage: 2 x green LED (both on)	operating voltage: 1 x green LED
display (signal)	1 x yellow LED per slot	1 x yellow LED per slot
housing material	plastic (PBT)	plastic (PBT)
contact material	CuZn, nickel underplating and gold plated plug-in and pull-out power ≥ 0.5N	CuZn, nickel underplating and gold plated plug-in and pull-out power ≥ 0.5N
design	60x122x41.5mm	60x172x41.5mm
operating temperature	-20 ... +70°C	-20 ... +70°C
plug-in cycles	≥ 50	≥ 50
soiling degree	3	3
inflammability class	UL 94 V-0	UL 94 V-0
system of protection (EN 60529)	IP67 - only when screwed with the corresponding counterparts or blank plugs	IP67 - only when screwed with the corresponding counterparts or blank plugs
connection	module: M12-connector, 4-pin	module: M12-connector, 4-pin
connection accessories	cable socket, e.g. <b>VK500325</b> , 5m, PUR, straight	cable socket, e.g. <b>VK500325</b> , 5m, PUR, straight
connection	sensors: 4 x M12-socket, 4-pin	sensors: 8 x M12-socket, 4-pin
connection accessories	connection cable, e.g. <b>VK200F25</b> , 2m, PUR, straight	connection cable, e.g. <b>VK200F25</b> , 2m, PUR, straight

**connection**

M12-connector pin assignment	4-way logic module	2 x 2-way logic module	8-way logic module	2 x 4-way logic module
1 (brown)	+ 24V DC	+ 24V DC	+ 24V DC	+ 24V DC
2 (white)	-	output 1	-	output 1
3 (blue)	0V DC	0V DC	0V DC	0V DC
4 (black)	output 2	output 2	output 2	output 2

wire colors of the cable socket (module) in brackets

**wiring diagrams logic module 4-way respectively 2 x 2-way**
**VL600104** 4-way

**VL600114** 2 x 2-way

**VL600124** 4-way

**VL600134** 2 x 2-way

**wiring diagrams logic module 8-way respectively 2 x 4-way**
**VL600108** 8-way

**VL600118** 2 x 4-way

**VL600128** 8-way

**VL600138** 2 x 4-way

 E1 to E8 are the inputs of the connected sensors (connections for M12-connectors).  
 1 to 4 are the pin configurations of the module (connection for M12-cable socket).

**ACCESSORIES**

article-no.	description	material
VK000004	blank plug M12, 2 x included in the scope of delivery	plastic
VK000035	bridging connector simulation "switching output on"	

cable socket	M12, straight	M12, angular
number of pins	4-pin	4-pin
article-no.	VK200325	VK200321
length	2.0m	2.0m
article-no.	VK500325	VK500321
length	5.0m	5.0m
article-no.	VKA00325	VKA00321
length	10.0m	10.0m
connection cable / connector	M12, straight	M12, straight
connection cable / socket	M12, angular	M12, straight
number of pins	4-pin	4-pin
article-no.	VK100F21	VK100F25
length	1.0m	1.0m
article-no.	VK200F21	VK200F25
length	2.0m	2.0m
article-no.	VK500F21	VK500F25
length	5.0m	5.0m

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