

- systems
- 2 solenoid valves can be connected
- Weatherproof housing for outdoor
- applications
- **Rugged metal base** Temperature range -40 ... 167 °F (-40°C to 75°C)
- 2-wire DC sensor with minimum offstate current
- LEDs for switching state of sensor and solenoid valve
- **Plug-in terminals**

Application

Note

The connections to this sensor are sealed with stopping plugs to protect against dirt and moisture. If not all of the connections are used in your application, then seal the remaining stopping plugs on the sensor permanently or check during initial installation and when performing regular maintenance work that the stopping plugs are secure and impermeable. If necessary, tighten the stopping plugs to a torque of 1 Nm.

Accessories	
BT65-F31K2-RG-EN	
Activator for F31K2 series	
BT65A	
Activator for F31 series	
BT65X	
Activator for F31 series	
VMB-2+P/Z2-0,3M-PVC-V1-W-Y	
Valve connector, Form B on M12, 2+PE, LED, Z diode, PV cable	С
VMBI-2+P/Z2-0,3M-PVC-V1-W-Y	
Valve connector, Form B (Ind) on M12, 2+PE, LED, Z diod PVC cable	e,
VMC-2+P/Z2-0,3M-PVC-V1-W-Y	
Valve connector, Form C on M12, 2+PE, LED, Z diode, PV cable	С
VMCI-2+P/Z2-0,3M-PVC-V1-W-Y	
Valve connector, Form C (Ind) on M12, 2+PE, LED, Z diod PVC cable	e,
VMA-2+P/Z2-0,3M-PVC-V1-W-Y	
Valve connector, Form A on M12, 2+PE, LED, Z diode, PV cable	С
to "General Notes Relating to Pepperl+Fuchs Product Inforn	natio

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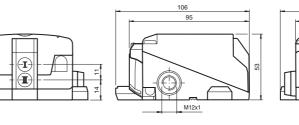
Technical Data					
General specifications					
Switching function		2 x normally open (NO)			
Output type		Two-wire			
Rated operating distance	s _n	2.5 mm			
Installation		for non-flush mounting			
Output polarity		DC			
Assured operating distance	sa	0 2.05 mm			
Output type		2x 2-wire			
Nominal ratings					
Operating voltage	UB	6 30 V			
Switching frequency	f	0 100 Hz			
Hysteresis	н	typ. 0.5 mm			
Reverse polarity protection		reverse polarity tolerant			
Short-circuit protection		no < 6 V			
Voltage drop	Ud	≤ 6 v 4 100 mA			
Operating current Off-state current	L	4 100 mA 100 200 μA typ. 160 μA			
Switching state indicator	l _r	LED, vellow			
Valve status indicator		LED, yellow			
Functional safety related parameter	ers				
MTTF _d	010	684 a			
Mission Time (T _M)		20 a			
Diagnostic Coverage (DC)		0%			
Valve circuit		0 /0			
Voltage		max. 32 V DC			
Current		max. 32 v DC max. 240 mA			
Short-circuit protection		no.			
Reverse polarity protection		yes, with reversed output LED is out of function, therfore more			
		power for solenoid valve			
Ambient conditions					
Ambient temperature		-40 75 °C (-40 167 °F)			
Storage temperature		-40 85 °C (-40 185 °F)			
Mechanical specifications					
Connection (system side)		screw terminal, M20 x 1.5 cable gland			
Core cross-section (system side)		1.5/2.5 mm ² flexible/rigid			
Connection (valve side)		4-pin, M12 x 1 socket			
Housing material		rugged, translucent polycarbonate (PC) optimised for outdoor use			
Housing base		powder coated aluminum			
Degree of protection		IP66 / IP67 / IP69			
Tightening torque, housing screws		≤2 Nm			
Tightening torque, cable gland		M20 x 1.5; \leq 4 Nm M12 x 1 \leq 3 Nm			
Tightening torque, stopping plug		1 Nm			
Tightening torque		Male connector, 1 Nm			
Compliance with standards and					
directives Standard conformity					
Standard conformity		EN 60947-5-2:2007			
Standards		EN 60947-5-2/A1:2012 IEC 60947-5-2:2007			
		IEC 60947-5-2 AMD 1:2012			

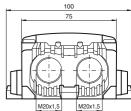
Approvals and certificates EAC conformity

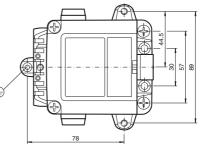
> TR CU 020/2011 cULus Listed, General Purpose, Class 2 Power Source

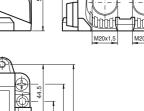
VDI / VDE 3845

UL approval **Dimensions**









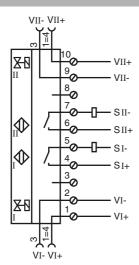


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Electrical Connection



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