



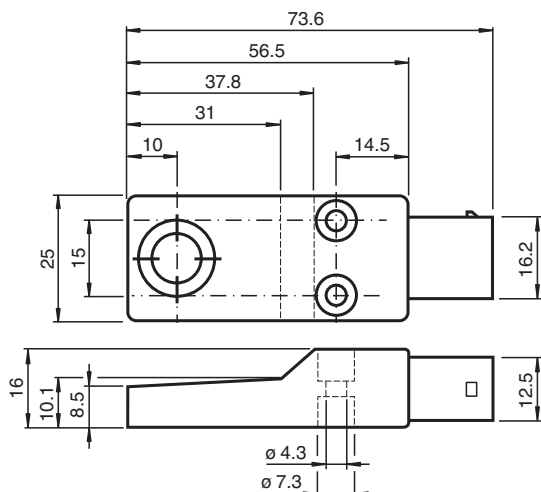
Magnetic field sensor

MB15-F33X-PWM-AMP-Y70197494

- Direct assembled AMP connector
- Special Puls Width Modulation PWM output
- Wide voltage range



Dimensions



Technical Data

General specifications

Output type		PWM output (PNP)
Identification Number		7736370
Rated operating distance	s_n	5 ... 15 mm
Installation		non-flush
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 60 V DC
Switching frequency	f	max. 10 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2.5 V
Operating current	I_L	0 ... 50 mA
No-load supply current	I_0	< 5 mA
Time delay before availability	t_v	≤ 25 ms

Safety-relevant product characteristics

MTTF _d		930 a
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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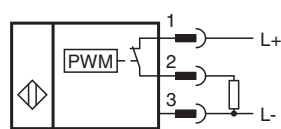
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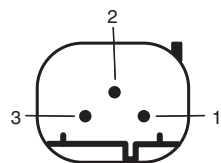
Technical Data

Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %
Compliance with standards and directives	
Standard conformity	
Standards	EN IEC 60947-5-2
Ambient conditions	
Ambient temperature	-35 ... 70 °C (-31 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications	
Connection type	Connector plug
Housing material	PBT , black
Degree of protection	IP67
Connector	
Number of pins	3
Connection assembly	AMP connector housing
Dimensions	
Height	16 mm
Width	25 mm
Length	73 mm
Note	Tightening torque: 5 Nm Fixing screws Magnet , plastic / brass

Connection Assignment



Connection Assignment

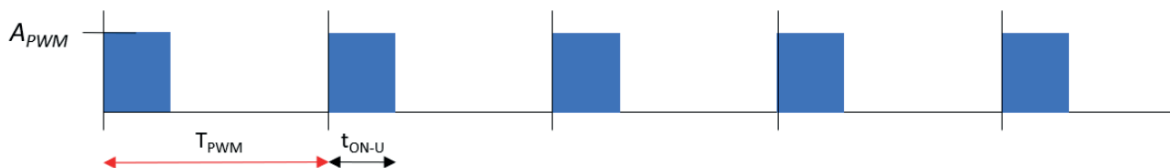


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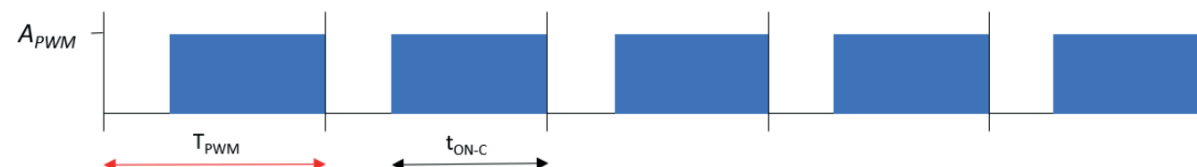
Operation

Periodic output signal behavior dependent on the presence of a magnet

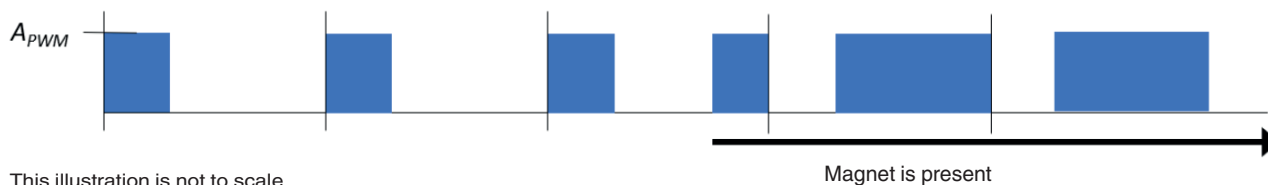
Output signal when magnet is not present



Output signal when magnet is present



Status change of object presence leads to instant signal change



This illustration is not to scale

Variable	Parameter	Value	Tolerance	Unit
T_{PWM}	Period of PWM signal	20	$\pm 10 \%$	ms
t_{ON-C}	Positive pulse width - Magnet present (covered)	14	$\pm 15 \%$	ms
t_{ON-U}	Positive pulse width - Magnet not present (uncovered)	6	$\pm 15 \%$	ms
A_{PWM}	Signal amplitude	$U_B - U_d$		V

Mounting

Installation Conditions

