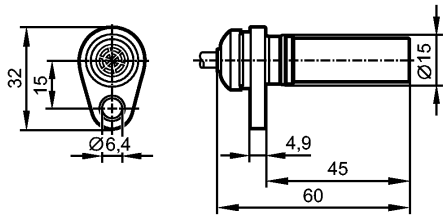
efector120

MX5050

MXD41.7/BPKG/H/0.5/ZH/US

Rotational speed sensors



CE

Product characteristics		
Rotational speed sensor		
Plastic housing		
Cable with connector		
2-channel		
Sensing range 1.7 mm; *)		
Toothed wheel module [mm]: 1.25		
Electrical data		
Electrical design		DC PNP
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 40
Protection class		III
Reverse polarity protection		yes
Outputs		
Output function		normally open
Voltage drop	[V]	< 1
Leakage current	[mA]	< 0.1
Current rating		
- Current rating (continuous)	[mA]	50
- Current rating (peak)	[mA]	50
Short-circuit protection		yes
Overload protection		yes
Switching frequency	[Hz]	1...15000
Range		
Sensing range	[mm]	1.7, *)
Real sensing range (Sr)	[mm]	1.7 ± 10 %
Operating distance	[mm]	1.38
Environment		
Ambient temperature	[°C]	-32...85
Protection		IP 65 / IP 68 / IP 69K
Tests / approvals		
EMC		EN 61000-4-2: 4 kV CD / 8 kV AD EN 61000-4-3: 10 V/m EN 61000-4-4: 2 kV EN 61000-4-6: 10 V/m EN 61000-4-8: 30 A/m EN 55011: 0 class B

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MXD41.7/BPKG/H/0.5/ZH/US

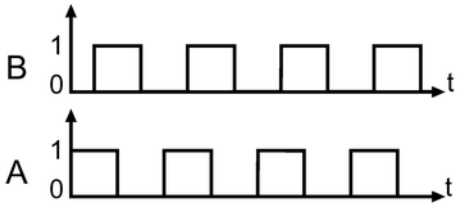
Rotational speed sensors

Shock resistance		DIN EN 60068-2-27	30 g (11 ms half sine; 3 shocks in each direction along the three coordinate axes)
Fast temperature changes		EN 60068-2-14 Na	TA = -10°C; TB = 70°C; t1 = 60 min; t2 = < 10 s; 20 Zyklen
Salt spray test		EN 60068-2-52 Kb	severity level 5 (4 test cycles)
MTTF	[Years]	3659	

Mechanical data

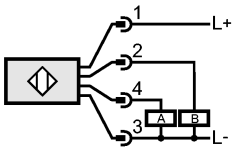
Housing materials		Brass; PA; O-ring: FPM
Tightening torque	[Nm]	7
Toothed wheel module	[mm]	1.25
		phase shift 90° +/- 20° *) mark-to-space ratio 50 % +/- 10 %
Weight	[kg]	0.047

Electrical connection

Connection	PUR cable / 0.5 m; with M12 connector
Switching signals	

Wiring





Remarks

Remarks		* Using toothed wheels with a different modulus has an influence on the sensing range and the phase position.
Pack quantity	[piece]	1