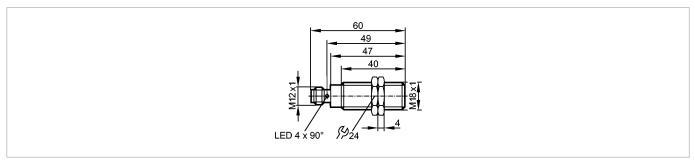
# efector120°

# **MGT201**

MGK3100-BPKG/M/V4A/US-104-DPS



### Magnetic sensors, cylinder sensors



# (€

Magnetic sensor           Metal thread M18 x 1           Quick disconnect           Signal time extension: 1s           Sensing range 100 mm; referred to magnet M4.0           Magnetic sensitivity 0.3 mT           Electrical design         DC PNP           Operating voltage         [V]         1030 DC           Current consumption         [mA]         < 10           Protection class         III         III           Reverse polarity protection         yes         Output function           Output function         normally open           Voltage drop         [V]         < 2.5           Current rating         [mA]         200           Short-circuit protection         yes           Overload protection         yes           Monitoring range         [mm]         100, referred to magnet M4.0           Magnetic sensitivity         [mT]         0.3           Accuracy / deviations         ***  Hysteresis         [% of Sr]         110           Environment         ***  Armbient temperature         [*C]         0104         Protection           Environment         ***  Armbient temperature         [*C]         0104         Protection         4 kV CD / 8 kV AD         EN 61000-4-2 ESD: </th <th>Product characteristics</th> <th>•</th> <th></th>	Product characteristics	•			
Metal thread M18 x 1           Quick disconnect           Signal time extension: 1s           Sensing range 100 mm; referred to magnet M4.0           Magnetic sensitivity 0.3 mT           Electrical data           Electrical design         DC PNP           Operating voltage         [V]         1030 DC           Current consumption         [mA]         < 10		,			
Quick disconnect           Signal time extension: 1s           Sensing range 100 mm; referred to magnet M4.0           Magnetic sensitivity 0.3 mT           Electrical data           Electrical design         DC PNP           Operating voltage         [V]         1030 DC           Current consumption         [mA]         < 10	·				
Signal time extension: 1s					
Sensing range 100 mm; referred to magnet M4.0					
DC PNP					
DC PNP	Magnetic sensitivity 0.3 n	nT			
Operating voltage         [V]         1030 DC           Current consumption         [mA]         < 10	Electrical data				
Current consumption         [mA]         < 10	Electrical design		DC PNP		
III	Operating voltage	[V]	1030 DC		
Name	Current consumption	[mA]	< 10		
Outputs           Output function         normally open           Voltage drop         [V]         < 2.5	Protection class		III		
Output function         normally open           Voltage drop         [V]         < 2.5	Reverse polarity protection		yes		
Voltage drop         [V]         < 2.5	Outputs				
Current rating         [mA]         200           Short-circuit protection         yes           Overload protection         yes           Monitoring range         [mm]         100, referred to magnet M4.0           Magnetic sensitivity         [mT]         0.3           Accuracy / deviations           Hysteresis         [% of Sr]         110           Environment         Ambient temperature         [°C]         0104           Protection         IP 68 / IP 69K           Tests / approvals           EMC         EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm) EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm) EN 61000-4-6 HF conducted: 10 V EN 55011: class B           MTTF         [Years]         769	Output function		normally open		
Short-circuit protection         yes           Overload protection         yes           Monitoring range         [mm]         100, referred to magnet M4.0           Magnetic sensitivity         [mT]         0.3           Accuracy / deviations         Hysteresis         [% of Sr]         110           Environment         Ambient temperature         [°C]         0104           Protection         IP 68 / IP 69K           Tests / approvals           EMC         EN 61000-4-2 ESD: EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: EN 61000-4-4 Burst: EN 61000-4-5 Surge: EN 61000-4-5 Surge: EN 61000-4-6 HF conducted: EN 61000-4-6 HF conducted: EN 55011: class B           MTTF         [Years]         769	Voltage drop	[V]	< 2.5		
Monitoring range         [mm]         100, referred to magnet M4.0           Magnetic sensitivity         [mT]         0.3           Accuracy / deviations         Hysteresis         [% of Sr]         110           Environment         Ambient temperature         [°C]         0104           Protection         IP 68 / IP 69K           Tests / approvals           EMC         EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm) EN 61000-4-6 HF conducted: 10 V EN 61000-4-6 HF conducted: 10 V EN 55011: class B           MTTF         [Years]         769	Current rating	[mA]	200		
Monitoring range         Sensing range         [mm]         100, referred to magnet M4.0           Magnetic sensitivity         [mT]         0.3           Accuracy / deviations         Hysteresis         [% of Sr]         110           Environment           Ambient temperature         [°C]         0104           Protection         IP 68 / IP 69K           Tests / approvals           EMC         EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm) EN 61000-4-6 HF conducted: 10 V EN 61000-4-6 HF conducted: 10 V EN 55011: class B           MTTF         [Years]         769	•		yes		
Sensing range   [mm]   100, referred to magnet M4.0	Overload protection		yes		
Magnetic sensitivity         [mT]         0.3           Accuracy / deviations           Hysteresis         [% of Sr]         110           Environment         Ambient temperature         [°C]         0104           Protection         IP 68 / IP 69K           Tests / approvals           EMC         EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-3 HF radiated: 2 kV EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm) EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm) EN 61000-4-6 HF conducted: 10 V EN 55011: class B           MTTF         [Years]         769					
Accuracy / deviations   Hysteresis   [% of Sr]   110					
Hysteresis   [% of Sr]   110		[mT]	0.3		
C   O104	-				
Ambient temperature [°C] 0104  Protection IP 68 / IP 69K  Tests / approvals  EMC EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm) EN 61000-4-6 HF conducted: 10 V EN 55011: class B  MTTF [Years] 769		[% of Sr]	110		
Protection IP 68 / IP 69K  Tests / approvals  EMC EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm) EN 61000-4-6 HF conducted: 10 V EN 55011: class B  MTTF [Years] 769		F0.03	2 121		
Tests / approvals  EMC  EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm) EN 61000-4-6 HF conducted: 10 V EN 55011: class B  MTTF  [Years]  769	•	[°C]			
EMC  EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm) EN 61000-4-6 HF conducted: 10 V EN 55011: class B  MTTF  [Years]  769			IP 68 / IP 69K		
EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm) EN 61000-4-6 HF conducted: 10 V EN 55011: class B  MTTF [Years] 769					
EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm) EN 61000-4-6 HF conducted: 10 V EN 55011: class B  MTTF [Years] 769	EMC		EN 61000-4-3 HF radiated: 10 V/m		
EN 55011:         class B           MTTF         [Years]			EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm)		
Machanical data	MTTF	[Years]	769		
wechanical data	Mechanical data				

Housing materials housing: stainless steel (316L); active face: PEEK (polyether ether ketone); lock nuts: stainless steel





MGK3100-BPKG/M/V4A/US-104-DPS



### Magnetic sensors, cylinder sensors

Weight [kg] 0.054

Displays / operating elements

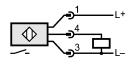
Output status indication LED yellow

**Electrical connection** 

Connection M12 connector; gold-plated contacts

Wiring





Accessories		
Accessories (included)		2 lock nuts
Remarks		
Remarks		voltage supply to EN50178, SELV, PELV
Pack quantity	[piece]	1

 $ifm\ efector,\ inc.\ \bullet\ 1100\ Atwater\ Drive\ \bullet\ Malvern\ \bullet\ PA\ 19355\ -\ We\ reserve\ the\ right\ to\ make\ technical\ alterations\ without\ prior\ notice.\ -\ US\ -\ MGT201\ -\ 05.07.2012$