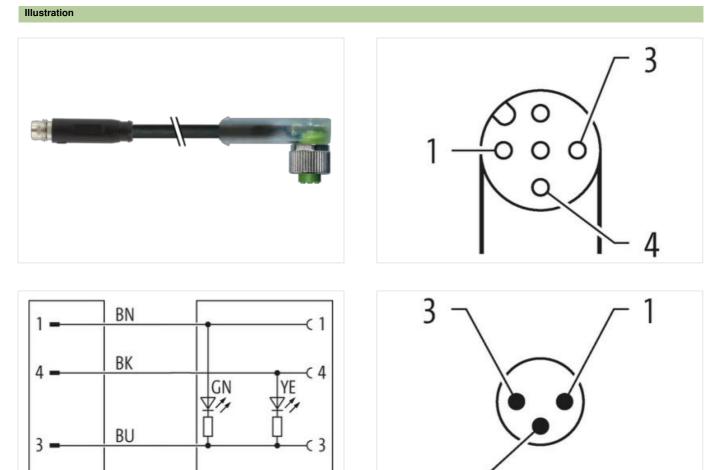


## M8 male 0° snap-in/M12 fem. 90° A-cod.screw-in LED

PUR 3x0.25 bk UL/CSA+robot+drag ch. 0.3m

Male straight – female 90° M8 (Snap In) – M12, 3-pole 2× LED (PNP), (NPN) on request Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product



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Product may differ from Image



Family construction form     M8       Suitable for corrugated tube (internal Ø)     6,5 mm       Coding     A       Degree of protection (EN IEC 60529)     IP65       Side 2     Tightening torque     0,6 Nm       Mounting method     inserted, screwed, Shaking protection       Family construction form     M12       Triead     M12 x 1       suitable for corrugated tube (internal Ø)     10 mm       Coding     A       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Electrical data   Supply     Uperating voltage DC       Operating voltage DC     24 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     4 A       Diagnostics     Status indication LED       Status indication LED     green, yellow       Device protection [Electrical     9       Polution Degree     3       Rated surge voltage     0,8 kV       Material group (IEC 60664-1)     1       Material group (IEC 60664-1)     1	Cable length	0,3 m
Family construction form       M8         Suitable for corrugated tube (internal Ø)       6,5 mm         Coding       A         Degree of protection (EN IEC 60529)       IP65         Side 2       Tightening torque       0,6 Nm         Mounting method       inserted, screwed, Shaking protection         Family construction form       M12         Thread       M12.x 1         suitable for corrugated tube (internal Ø)       10 mm         Coding       A         Midth across flats       SW13         Degree of protection (EN IEC 60529)       IP65, IP66K, IP67         Electrical data   Supply       Poperating voltage DC         Operating voltage DC       24 V         Operating voltage DC max.       30 V         Operating voltage DC max.       30 V         Operating voltage DC max.       30 V         Operating voltage DC max.       4 A         Diagnostics       green, yellow         Device protection I Electrical       green, yellow	Side 1	
suitable for corrugated tube (internal Ø) 6,5 mm Coding A Begree of protection (EN IEC 60529) IP65 Side 2 Tightening torque 0,6 Nm Mounting method inserted, screwed, Shaking protection Family construction form M12 Thread M12 x 1 Suitable for corrugated tube (internal Ø) 10 mm Coding A Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Electrical data   Supply Operating voltage DC 24 V Operating voltage DC 34 V Operating voltage DC 30 V Current operating per contact max. 4 A Diagnostics Status indication LED green, yellow Device protection IED 30 V Current operating per contact max. 4 A Diagnostics Status indication LED 30 S Status indication LE	Mounting method	inserted, geschnappt
Coding     A       Degree of protection (EN IEC 60529)     IP65       Side 2	Family construction form	M8
Degree of protection (EN IEC 60529)     IP65       Side 2     0,6 Nm       Mounting method     inserted, screwed, Shaking protection       Family construction form     M12       Thread     M12 x 1       Suitable for corrugated tube (internal Ø)     10 mm       Coding     A       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65 (IP66K, IP67       Electrical data   Supply     U       Operating voltage DC     24 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     4 A       Diagostics     green, yellow       Device protection   Electrical     green, yellow       Device protection   Electrical     green, yellow       Data radia group (IEC 60664-1)     1       Material group (IEC 60664-1)     1       Material group (IEC 60664-1)     1	suitable for corrugated tube (internal Ø)	6,5 mm
Side 2         Tightening torque       0.6 Nm         Mounting method       inserted, screwed, Shaking protection         Family construction form       M12         Thread       M12 x 1         suitable for corrugated tube (internal Ø)       10 mm         Coding       A         Width across flats       SW13         Degree of protection (EN IEC 60529)       IP65, IP66K, IP67         Electrical data   Supply       V         Operating voltage DC       24 V         Operating voltage DC max.       30 V         Operating voltage DC max.       30 V         Operating voltage DC max.       30 V         Current operating per contact max.       4 A         Diagnostics       green, yellow         Poliution Degree       3         Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       1         Nethenical data   Material data       Safe-cover coated	Coding	A
Tightening torque     0.6 Nm       Mounting method     inserted, screwed, Shaking protection       Family construction form     M12       Thread     M12 x 1       suitable for corrugated tube (internal Ø)     10 mm       Coding     A       With across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Electrical data   Supply     Poperating voltage DC       Operating voltage DC     24 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     4 A       Diagnostics     green, yellow       Polution Degree     3       Rated surge voltage     0,8 kV       Material group (IEC 60664-1)     1       Material group (IEC 60664-1)     1       Aterial group (IEC 60664-1)     1	Degree of protection (EN IEC 60529)	IP65
Mounting method       Inserted, screwed, Shaking protection         Family construction form       M12         Thread       M12 x 1         suitable for corrugated tube (internal Ø)       10 mm         Coding       A         Width across flats       SW13         Degree of protection (EN IEC 60529)       IP65, IP66K, IP67         Electrical data   Supply       Poperating voltage DC         Operating voltage DC       24 V         Operating voltage DC min.       18 V         Operating voltage DC max.       30 V         Operating voltage DC max.       30 V         Current operating per contact max.       4 A         Diagnostics       green, yellow         Device protection [Electrical       green, yellow         Device protection [Electrical       0,8 kV         Material group (IEC 60664-1)       1	Side 2	
Family construction form     M12       Thread     M12 x 1       suitable for corrugated tube (internal Ø)     10 mm       Coding     A       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Electrical data   Supply        Operating voltage DC     24 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     4 A       Diagnostics     green, yellow       Device protection   Electrical     green, yellow       Pollution Degree     3       Rated surge voltage     0,8 kV       Material group (IEC 60664-1)     1       Mechanical data   Material data     Safe-cover coated	Tightening torque	0,6 Nm
Thread     M12 x 1       suitable for corrugated tube (internal Ø)     10 mm       Coding     A       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Electrical data   Supply     Poperating voltage DC       Operating voltage DC     24 V       Operating voltage DC max.     30 V       Operating voltage DC max.     4 A       Diagostics     green, yellow       Pollution LED     green, yellow       Pollution Degree     3       Rated surge voltage     0.8 kV       Material group (IEC 60664-1)     1       Mechanical data   Material data     coater       Coating locking     safe-cover coated	Mounting method	inserted, screwed, Shaking protection
suitable for corrugated tube (internal Ø) 10 mm Coding A Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Electrical data   Supply Operating voltage DC 24 V Operating voltage DC min. 18 V Operating voltage DC max. 30 V Operating voltage DC max. 30 V Operating voltage DC max. 4 A Diagnostics Status indication LED green, yellow Device protection   Electrical Pollution Degree 3 Rated surge voltage 0,8 kV Material group (IEC 60664-1) I Electrical data   Material data Coating locking area-over coated	Family construction form	M12
Coding       A         Width across flats       SW13         Degree of protection (EN IEC 60529)       IP65, IP66K, IP67         Electrical data   Supply       Poperating voltage DC         Operating voltage DC       24 V         Operating voltage DC min.       18 V         Operating voltage DC max.       30 V         Operating voltage DC max.       30 V         Operating voltage DC max.       30 V         Operating voltage DC max.       4 A         Diagnostics       green, yellow         Device protection   Electrical       green, yellow         Pollution Degree       3         Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       1         Mechanical data   Material data       Coating locking	Thread	M12 x 1
Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Electrical data   Supply     Perating voltage DC     24 V       Operating voltage DC     24 V     Perating voltage DC max.       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Current operating per contact max.     4 A       Diagnostics     green, yellow       Device protection   Electrical     green, yellow       Pollution Degree     3       Rated surge voltage     0,8 kV       Material group (IEC 60664-1)     I       Mechanical data   Material data     Coating locking	suitable for corrugated tube (internal $\emptyset$ )	10 mm
Degree of protection (EN IEC 60529)       IP65, IP66K, IP67         Electrical data   Supply         Operating voltage DC       24 V         Operating voltage DC min.       18 V         Operating voltage DC max.       30 V         Operating voltage DC max. (UL-listed)       30 V         Operating voltage DC max. (UL-listed)       30 V         Current operating per contact max.       4 A         Diagnostics       green, yellow         Device protection   Electrical       green, yellow         Pollution Degree       3         Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data       safe-cover coated	Coding	A
Electrical data   Supply         Operating voltage DC       24 V         Operating voltage DC min.       18 V         Operating voltage DC max.       30 V         Operating voltage DC max.       4 A         Diagnostics       green, yellow         Status indication LED       green, yellow         Pollution Degree       3         Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data       safe-cover coated	Width across flats	SW13
Operating voltage DC       24 V         Operating voltage DC min.       18 V         Operating voltage DC max.       30 V         Operating voltage DC max. (UL-listed)       30 V         Current operating per contact max.       4 A         Diagnostics       green, yellow         Device protection   Electrical       green, yellow         Pollution Degree       3         Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data       safe-cover coated	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Operating voltage DC min.       18 V         Operating voltage DC max.       30 V         Operating voltage DC max. (UL-listed)       30 V         Current operating per contact max.       4 A         Diagnostics       green, yellow         Device protection   Electrical       green, yellow         Pollution Degree       3         Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data       safe-cover coated	Electrical data   Supply	
Operating voltage DC max.       30 V         Operating voltage DC max. (UL-listed)       30 V         Current operating per contact max.       4 A         Diagnostics       green, yellow         Device protection   Electrical       green, yellow         Pollution Degree       3         Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data       safe-cover coated	Operating voltage DC	24 V
Operating voltage DC max. (UL-listed)       30 V         Current operating per contact max.       4 A         Diagnostics       status indication LED         Status indication LED       green, yellow         Device protection   Electrical       status indication Degree         Pollution Degree       3         Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data       safe-cover coated	Operating voltage DC min.	18 V
Current operating per contact max.       4 A         Diagnostics       green, yellow         Status indication LED       green, yellow         Device protection   Electrical       3         Pollution Degree       3         Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data       safe-cover coated	Operating voltage DC max.	30 V
Diagnostics         Status indication LED       green, yellow         Device protection   Electrical         Pollution Degree       3         Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data         Coating locking       safe-cover coated	Operating voltage DC max. (UL-listed)	30 V
Status indication LED       green, yellow         Device protection   Electrical       3         Pollution Degree       3         Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       1         Mechanical data   Material data       safe-cover coated	Current operating per contact max.	4 A
Device protection   Electrical         Pollution Degree       3         Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data       Safe-cover coated         Coating locking       safe-cover coated	Diagnostics	
Pollution Degree     3       Rated surge voltage     0,8 kV       Material group (IEC 60664-1)     I       Mechanical data   Material data     I       Coating locking     safe-cover coated	Status indication LED	green, yellow
Rated surge voltage     0,8 kV       Material group (IEC 60664-1)     I       Mechanical data   Material data     Safe-cover coated       Coating locking     Safe-cover coated	Device protection   Electrical	
Material group (IEC 60664-1) I Mechanical data   Material data Coating locking safe-cover coated	Pollution Degree	3
Mechanical data   Material data           Coating locking         safe-cover coated	Rated surge voltage	0,8 kV
Coating locking safe-cover coated	Material group (IEC 60664-1)	I
	Mechanical data   Material data	
Material housing PUR	Coating locking	safe-cover coated
	Material housing	PUR

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Locking material	Zinc die-casting
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)
Installation   Cable	
wire arrangement	brown, black, blue
Cable identification	650
Cable Type	5
Jacket Color	black
Type of Certificate	cURus
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	brown, black, blue
Cable weigth	26,4 g/m
Material jacket	PUR
Shore hardness jacket	58 ± 3 Shore D
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	4,3 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PP
Amount wires	3
Outer diameter insulation	1,25 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	74 ± 3 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	32
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,25 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,5 A
Electrical resistance line constant wire	79 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing

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Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	1 Mio.
Torsion stress	± 360 °/m
Torsion speed	35 cycles/min
Commercial data	
customs tariff number	85444290
Packaging unit	1

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