

## M12 female 90° A-cod. with cable

PVC 3x0.75 gy 1.5m

Female 90° M12, 3-pole 2× LED (PNP)

Invers-polarity protection

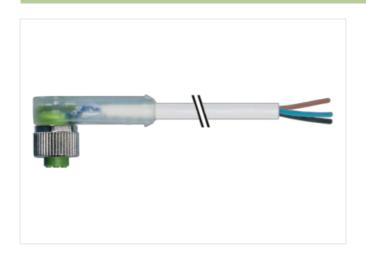
Plastic housings with good resistance against chemicals and oils.

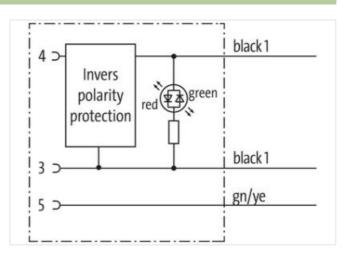
The resistance to aggressive media should be individually tested for your application. Further details on request.

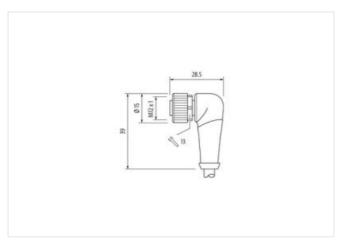
Further cable lengths on request.

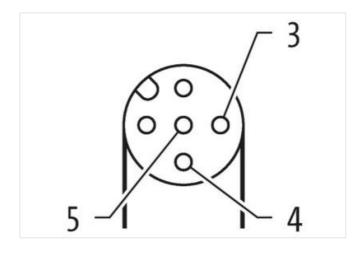
## **Link to Product**

## Illustration









Product may differ from Image







Cable length

1,5 m

Side 1

Tightening torque 0,6 Nm



stay connected

Thread	Mounting method	inserted, screwed
Thread		·
Suitable for corrupated tube (internal 0)	·	
Coding		
Material   PUR   Width across flats   SW13   SW13   SW13   SW13   SW13   SW13   SW13   SW13   SW13   SW143		
Width across flats		
Degree of protection (EN IEC 60529)   IP65, IP66K, IP67		
CCLASS-6.0   27279218		
ECLASS-6.0 27279218  ECLASS-7.0 27279218  ECLASS-7.0 27279218  ECLASS-8.0 27279218  ECLASS-8.0 27279218  ECLASS-9.0 27080311  ECLASS-10.1 27080311  ECLASS-11.1 27080311  ECLASS-11.1 27080311  ECLASS-12.0 27080311  ECLASS-12.0 1208031  ETIM-5.0 EC001855  Customs tariff number 85444290  GTIN 4048879462920  TRIM 4048879462920  TRIM 4048879462920  Packaging unit 1  Electrical fata   Supply  Operating voltage DC 24 V  Operating voltage DC min. 20,4 V  Operating voltage DC min. 4 A  Diagnostics  Status indication LED green, red  Installation   Connection  Mounting set M12 x 1  Edectrical data   Supply  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage BC no. 8 kV  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material Zinc de-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Mechanical data   Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Environmental characteristics   Climatic  Eproparating temperature min. 25° °C  Operating temperature max. 85° °C		
ECLASS-6.1 27279218 ECLASS-7.0 2779218 ECLASS-8.0 27279218 ECLASS-9.0 27060311 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ETIM-5.0 ECO3155 customs tariff number 85444290 GTIN 4048879462020 Factorial tariff number 1 Electrical data   Supply Packaging unit 1  Electrical data   Supply Operating voltage DC 24 V Operating voltage DC 27.8 V Operating voltage DC min. 20.4 V Operating voltage DC min. 20.4 V Operating voltage DC max. 27.8 V Operating voltage DC min. 20.4 V Operating operating be contact mix. 4 A  Diagnostics  Status indication LED green, red  Institution LED green, red  Institution LED green, red  Institution LED green, red  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0.8 kV  Mechanical data   Material data  Coating locking Nickeled  Coating lockin		
ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001685           customs tariff number         85444290           GTIN         4048879462020           Packaging unit         1           Electrical data   Supply           Operating voltage DC           Operating voltage DC min.         20,4 V           Operating voltage DC min.         20,4 V           Operating voltage DC min.         27,6 V           Current operating per contact max.         4 A           Diagnostics           Status indication LED         green, red           Installation   Connection           Mounting set         M12 x 1           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Mechanical data   Material data           Coating locking         Nickeled <td></td> <td></td>		
ECLASS-8.0   27279218     ECLASS-9.0   27060311     ECLASS-10.1   27060311     ECLASS-11.1   27060311     ECLASS-12.0   27060311     ECLASS-12.0   27060311     ETM-5.0   EC001855     Customs tarff number   8544290     GTIN   4048879462020     Packajing unit   1     Electrical data   Supply     Operating voltage DC   24 V     Operating voltage DC   20,4 V     Operating voltage DC max.   27,8 V     Current operating per contact max.   4 A     Diagnostics   V     Installation   Connection     Mounting set   M12 x 1     Device protection   Electrical     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   0,8 kV     Mechanical data   Material data     Coating of litting   nickel plated     Locking material   27inc die-casting     Meterial screw connection   27inc die-casting     Meterial screw connection   Every connection     Mounting method   inserted, screwed, Shaking protection     Electrical   Mounting data   Mounting method   Inserted, screwed, Shaking protection     Electrical   Mounting method   Inserted, screwed, Shaking protection     Electrical   Electrical     Mounting method   Inserted, screwed, Shaking protection     Electrical   Electrical     Coperating temperature max.   25°C     Operating temp		
ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879462020           Packaging unit         1           Electrical data   Supply           Operating voltage DC         24 V           Operating voltage DC max.         27.6 V           Current operating per contact max.         4 A           Diagnostics         Status indication LED           Status indication   Connection         Mounting set         M12 x 1           Device protection   Electrical         Additional condition protection degree         inserted, screwed           Pollution Degree         3         Rated surge voltage         0,8 kV           Mechanical data   Material data         Coating of fitting         Nickeled           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Mechanical data   Mounting data         Mounting method         inserted, screwed, Shaking protection           Poprating temperature mix.         -25 °C           Operating temperature max.         -25 °C  <		
ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048973462020           Packaging unit         1           Electrical data [suppty           Operating voltage DC         24 V           Operating voltage DC min.         20,4 V           Operating voltage DC max.         27,6 V           Current operating per contact max.         4 A           Diagnostics           Status indication LED         green, red           Installation   Connection           Mounting set         M12 x 1           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Mechanical data   Material data           Coating foking         Nickeled           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         ins		
ECLASS-12.0   27060311   ECLASS-12.0   27060311   ETIM-5.0   ECO01855   ETIM-5.0   ECO		
ECLASS-12.0 27060311 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879482020 Packaging unit 1  Electrical data   Supply  Operating voltage DC 24 V  Operating voltage DC 20,4 V  Operating voltage DC min. 20,4 V  Operating voltage DC min. 20,4 V  Operating voltage DC min. 4 A  Diagnostics  Status indication LED green, red  Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage 0,8 kV  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection 2 Inserted, screwed, Shaking protection  Mechanical data   Munting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C		
ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048679462020 Packaging unit 1  Electrical data   Supply  Operating voltage DC 24 V Operating voltage DC max. 27.6 V Current operating per contact max. 4 A  Diagnostics  Status indication LED green, red  Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1 M2 x 1  Coating looking nickel plated  Coating of fitting nickel plated  Locking material Zinc die-casting  Mechanical data   Material data  Coating of fitting nickel plated  Locking material Zinc die-casting  Mechanical data   Munting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C		
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GTIN 4048879462020 Packaging unit 1  Electrical data   Supply  Operating voltage DC 24 V  Operating voltage DC max. 27,6 V  Current operating per contact max. 4 A  Diagnostics  Status indication LED green, red  Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C		
Packaging unit    Electrical data   Supply		
Coperating voltage DC		
Operating voltage DC 24 V Operating voltage DC min. 20,4 V Operating voltage DC max. 27,6 V Current operating per contact max. 4 A  Diagnostics Status indication LED green, red Installation   Connection Mounting set M12 x 1  Device protection   Electrical Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 0,8 kV  Mechanical data   Material data  Coating locking Nickeled Coating of fitting nickel plated Locking material Zinc die-casting Material screw connection Zinc die-casting Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection Environmental characteristics   Climatic Operating temperature min25 °C Operating temperature max. 85 °C	Packaging unit	1
Operating voltage DC min. 20,4 V Operating voltage DC max. 27,6 V Current operating per contact max. 4 A  Diagnostics Status indication LED green, red Installation   Connection Mounting set M12 x 1  Device protection   Electrical Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 0,8 kV  Mechanical data   Material data  Coating locking Nickel plated Locking material Zinc die-casting Material screw connection Zinc die-casting Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection Environmental characteristics   Climatic  Operating temperature min25 °C Operating temperature max. 85 °C	Electrical data   Supply	
Operating voltage DC max. 27,6 V Current operating per contact max. 4 A  Diagnostics Status indication LED green, red  Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Operating voltage DC	24 V
Current operating per contact max. 4 A    Diagnostics	Operating voltage DC min.	20,4 V
Status indication LED green, red  Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material nickel plated  Locking material zerew connection zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Operating voltage DC max.	27,6 V
Status indication LED green, red  Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Current operating per contact max.	4 A
Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Diagnostics	
Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Status indication LED	green, red
Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Installation   Connection	
Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Mounting set	M12 x 1
Pollution Degree 3 Rated surge voltage 0,8 kV  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Device protection   Electrical	
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Rated surge voltage 0,8 kV  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Pollution Degree	3
Coating locking Nickeled  Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C		0,8 kV
Coating locking Nickeled  Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Mechanical data   Material data	
Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C		Nickeled
Locking material  Material screw connection  Zinc die-casting  Mechanical data   Mounting data  Mounting method  inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.  -25 °C  Operating temperature max.  85 °C		
Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C		·
Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	·	
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C		Zino dio ododing
Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	, , , , ,	inserted screwed Shaking protection
Operating temperature min25 °C Operating temperature max. 85 °C		
Operating temperature max. 85 °C	·	
Additional condition temperature range depending on cable quality		
	Additional condition temperature range	depending on cable quality
Important installation notes	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 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.	Note on bending radius	
Installation   Cable	Installation   Cable	
Cable identification 216	Cable identification	216

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-07



Cable Type	1
Printing color of wire insulation	white (isolation black)
Jacket Color	gray
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	black 1, black 2, green-yellow
Cable weigth	63,8 g/m
Material jacket	PVC
Shore hardness jacket	80 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Outer-diameter (jacket)	5,9 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	PVC
Amount wires	3
Outer diameter insulation	1,8 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	43 ± 5 Shore D
Material properties wire insulation	good machinability
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Printing color of wire insulation	white (isolation black)
Amount strands (wire)	24
Diameter of single wires	0,2 mm
Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
Max. rated voltage (conductor - conductor)	500 V
Max. rated voltage (conductor - ground)	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	12 A
Electrical resistance line constant wire	26 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	3 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	3 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	70 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter