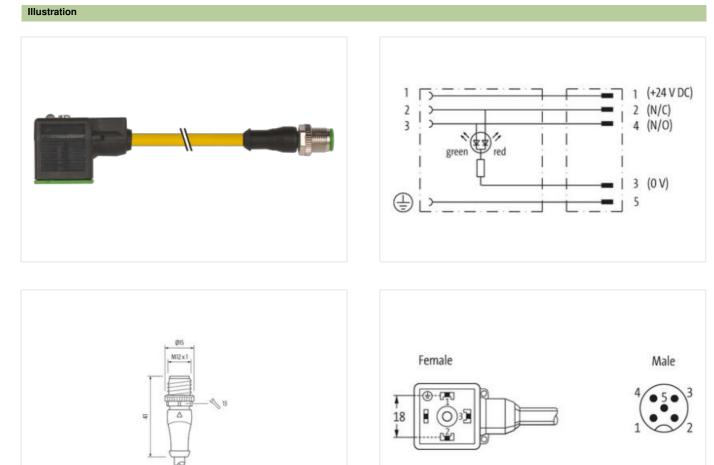


## M12 male 0° A-cod. / MSUD valve plug A-18mm

PUR 5x0.34 ye UL/CSA+robot+drag ch. 0.3m

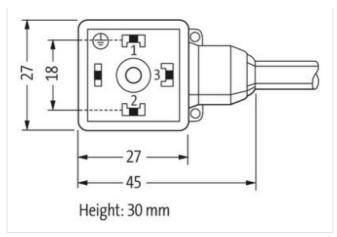
Form A (18 mm) – M12, male straight 24 V DC ±25% LED (red/green) for pressure switches Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product



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Product may differ from Image



Cable length  0.3 m    Side 1  0.4 Nm    Tightening torque  0.4 Nm    Family construction form  MSUD    Thread  M3    Degree of protection (EN EC 60529)  IP67    Side 2  Image construction form    Typhtening torque  0.6 Nm    Family construction form  M12    Thread  M12 x 1    Width across flats  SW13    Degree of protection (EN IEC 60529)  IP67    Electrical data   Supply  IP67    Operating voltage DC  24 V    Operating voltage DC  24 V    Operating voltage DC ma.  30 V    Current operating per contact max.  4 A    Device protection [Electrical  Immedia    Additional condition protection degree  inserted, screwed    Pollution Degree  0.8 kV    Material Housing  Immedia    Material Housing  Immedia    Material Housing  Immedia    Material Housing  Immedia    Portaging temperature min.  -25 °C    Operating temperature min.  -25 °C    Operating temperature min.  -55 °C    Operating temperature min.  55 °C    Operatin testallation notes  Genoming on cable quality		
Tiphtening torque      0.4 Nm        Family construction form      MSUD        Tinead      M3        Degree of protection (EN IEC 60529)      IP67        Side 2	Cable length	0,3 m
Family construction form  MSUD    Thread  M3    Degree of protection (EN IEC 60529)  IP67    Side 2	Side 1	
Thread  M3    Degree of protection (EN IEC 60529)  IP67    Side 2	Tightening torque	0,4 Nm
Degree of protection (EN IEC 60529)  IP67    Side 2	Family construction form	MSUD
Side 2      Tightening torque    0,6 Nm      Family construction form    M12      Thread    M12 x 1      Width across flats    SW13      Degree of protection (EN IEC 60529)    IP67      Electrical data   Supply    Operating voltage DC      Operating voltage DC    24 V      Operating voltage DC max.    30 V      Current operating per contact max.    4 A      Device protection   Electrical      Additional condition protection degree    3      Pollution Degree    3      Rated surge voltage    0,8 kV      Mechanical data   Material data    Color housing      Material housing    Plastic      Mounting method    inserted, screwed      Environmental characteristics   Climattic    Color housing      Mounting method    inserted, screwed      Environmental characteristics   Climattic    Color housing      Operating temperature min.    -25 °C      Operating temperature max.    85 °C      Additional condition temperature max    65 °C	Thread	М3
Tightening torque      0.6 Nm        Family construction form      M12        Thread      M12 x 1        Width across flats      SW13        Degree of protection (EN IEC 60529)      IP67        Electrical data   Supply      Degree of protection (EN IEC 60529)        Operating voltage DC      24 V        Operating voltage DC min.      18 V        Operating voltage DC min.      18 V        Operating voltage DC max.      30 V        Current operating per contact max.      4 A        Device protection   Electrical      Additional condition protection degree        Additional condition protection degree      inserted, screwed        Pollutin Degree      3        Rated surge voltage      0,8 kV        Mechanical data   Maetrial data      Mounting method        Mounting method      inserted, screwed        Environmental characteristics   Climatic      Coperating temperature min.        Operating temperature min.      -25 °C        Operating temperature max.      85 °C        Additional condition temperature range      depending on cable quality	Degree of protection (EN IEC 60529)	IP67
Family construction form    M12      Thread    M12 x 1      Width across flats    SW13      Degree of protection (EN IEC 60529)    IP67      Electrical data   Supply       Operating voltage DC    24 V      Operating voltage DC min.    18 V      Operating voltage DC min.    30 V      Current operating per contact max.    4 A      Device protection   Electrical      Additional condition protection degree    inserted, screwed      Pollution Degree    3      Rated surge voltage    0.8 kV      Material housing    Plastic      Mechanical data   Mounting data    Mounting method      Mounting method    inserted, screwed      Environmental characteristics   Climatic    Coler outpertection   Electrical      Additional condition protection degree    3      Rated surge voltage    0.8 kV      Mechanical data   Material data    Coler housing      Deak    Material housing      Plastic    Mounting method      Environmental characteristics   Climatic    Coler housing      Operating temperature min.    -25 °C      Operating temperature max. </td <td>Side 2</td> <td></td>	Side 2	
Thread    M12 x 1      Width across flats    SW13      Degree of protection (EN IEC 60529)    IP67      Electrical data   Supply    Perating voltage DC      Operating voltage DC    24 V      Operating voltage DC min.    18 V      Operating voltage DC max.    30 V      Current operating per contact max.    4 A      Device protection   Electrical    Additional condition protection degree      Additional condition protection degree    3      Rated surge voltage    0,8 kV      Mechanical data   Material data    Color housing      Multing method    inserted, screwed      Mounting method    inserted, screwed      Environmental characteristics   Climatic    Color housing      Operating temperature min.    -25 °C      Operating temperature max.    85 °C      Additional condition temperature range    depending on cable quality	Tightening torque	0,6 Nm
Width across flats  SW13    Degree of protection (EN IEC 60529)  IP67    Electrical data   Supply  Operating voltage DC  24 V    Operating voltage DC min.  18 V    Operating voltage DC max.  30 V    Current operating per contact max.  4 A    Device protection   Electrical  Inserted, screwed    Pollution Degree  3    Rated surge voltage  0.8 kV    Mechanical data   Material data    Color housing  black    Material housing  Plastic    Mechanical data   Mounting data    Mounting method  inserted, screwed    Environmental characteristics   Climatic    Operating temperature min.  -25 °C    Operating temperature range  depending on cable quality	Family construction form	M12
Degree of protection (EN IEC 60529)    IP67      Electrical data   Supply	Thread	M12 x 1
Electrical data   Supply      Operating voltage DC    24 V      Operating voltage DC min.    18 V      Operating voltage DC max.    30 V      Current operating per contact max.    4 A      Device protection   Electrical    Additional condition protection degree      Additional condition protection degree    3      Rated surge voltage    0,8 kV      Mechanical data   Material data    V      Color housing    black      Material housing    Plastic      Mounting method    inserted, screwed      Pounting method    inserted, screwed      Operating temperature min.    -25 °C      Operating temperature max.    85 °C      Additional condition temperature range    depending on cable quality		SW13
Operating voltage DC24 VOperating voltage DC min.18 VOperating voltage DC max.30 VCurrent operating per contact max.4 ADevice protection   ElectricalAdditional condition protection degreeinserted, screwedPollution Degree3Rated surge voltage0,8 kVMechanical data   Material dataColor housingblackMaterial housingPlasticMechanical data   Mounting dataMounting methodinserted, screwedEnvironmental characteristics   ClimaticOperating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	Degree of protection (EN IEC 60529)	IP67
Operating voltage DC min.    18 V      Operating voltage DC max.    30 V      Current operating per contact max.    4 A      Device protection   Electrical    Additional condition protection degree      Additional condition protection degree    inserted, screwed      Pollution Degree    3      Rated surge voltage    0,8 kV      Mechanical data   Material data    Color housing      Color housing    black      Material housing    Plastic      Mechanical data   Mounting data    Mounting method      Inserted, screwed    -25 °C      Operating temperature max.    85 °C      Additional condition temperature range    depending on cable quality	Electrical data   Supply	
Operating voltage DC max.    30 V      Current operating per contact max.    4 A      Device protection   Electrical      Additional condition protection degree    inserted, screwed      Pollution Degree    3      Rated surge voltage    0,8 kV      Mechanical data   Material data    Color housing      Date:    Image: Color housing      Material housing    Plastic      Mechanical data   Mounting data    Image: Color housing      Mounting method    inserted, screwed      Environmental characteristics   Climatic    -25 °C      Operating temperature min.    -25 °C      Operating temperature max.    85 °C      Additional condition temperature range    depending on cable quality	Operating voltage DC	24 V
Current operating per contact max.    4 A      Device protection   Electrical      Additional condition protection degree    inserted, screwed      Pollution Degree    3      Rated surge voltage    0,8 kV      Mechanical data   Material data    Color housing      Material housing    black      Material housing    Plastic      Mechanical data   Mounting data    inserted, screwed      Mounting method    inserted, screwed      Environmental characteristics   Climatic    Operating temperature min.      -25 °C    Operating temperature max.      Ads °C    Additional condition temperature range      depending on cable quality    depending on cable quality	Operating voltage DC min.	18 V
Device protection   Electrical      Additional condition protection degree    inserted, screwed      Pollution Degree    3      Rated surge voltage    0,8 kV      Mechanical data   Material data    V      Color housing    black      Material housing    Plastic      Mechanical data   Mounting data    Nounting method      Mounting method    inserted, screwed      Environmental characteristics   Climatic    -25 °C      Operating temperature min.    -25 °C      Operating temperature max.    85 °C      Additional condition temperature range    depending on cable quality	Operating voltage DC max.	30 V
Additional condition protection degreeinserted, screwedPollution Degree3Rated surge voltage0,8 kVMechanical data   Material datablackColor housingblackMaterial housingPlasticMechanical data   Mounting dataMounting methodinserted, screwedEnvironmental characteristics   ClimaticOperating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	Current operating per contact max.	4 A
Pollution Degree    3      Rated surge voltage    0,8 kV      Mechanical data   Material data	Device protection   Electrical	
Rated surge voltage    0,8 kV      Mechanical data   Material data    Image: Color housing    black      Color housing    black    Image: Color housing    Plastic      Material housing    Plastic    Image: Color housing    Image: Color housing    Plastic      Mechanical data   Mounting data    Image: Color housing method    Image: Color housing    Image: Color housing	Additional condition protection degree	inserted, screwed
Mechanical data   Material dataColor housingblackMaterial housingPlasticMechanical data   Mounting dataMounting methodinserted, screwedEnvironmental characteristics   ClimaticOperating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	Pollution Degree	3
Color housingblackMaterial housingPlasticMechanical data   Mounting datainserted, screwedMounting methodinserted, screwedEnvironmental characteristics   Climatic-25 °COperating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	Rated surge voltage	0,8 kV
Material housing    Plastic      Mechanical data   Mounting data    Inserted, screwed      Mounting method    inserted, screwed      Environmental characteristics   Climatic    -25 °C      Operating temperature mix.    85 °C      Additional condition temperature range    depending on cable quality	Mechanical data   Material data	
Mechanical data   Mounting data      Mounting method    inserted, screwed      Environmental characteristics   Climatic      Operating temperature min.    -25 °C      Operating temperature max.    85 °C      Additional condition temperature range    depending on cable quality	Color housing	black
Mounting methodinserted, screwedEnvironmental characteristics   ClimaticOperating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	Material housing	Plastic
Environmental characteristics   Climatic      Operating temperature min.    -25 °C      Operating temperature max.    85 °C      Additional condition temperature range    depending on cable quality	Mechanical data   Mounting data	
Operating temperature min.    -25 °C      Operating temperature max.    85 °C      Additional condition temperature range    depending on cable quality	Mounting method	inserted, screwed
Operating temperature max.  85 °C    Additional condition temperature range  depending on cable quality	Environmental characteristics   Climatic	
Additional condition temperature range depending on cable quality	Operating temperature min.	-25 °C
	Operating temperature max.	85 °C
Important installation notes	Additional condition temperature range	depending on cable quality
	Important installation notes	

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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 175301-803 (Ventilstecker)	
Installation   Cable		
wire arrangement	brown, black, blue, white, green-yellow	
Cable identification	055	
Cable Type	5	
Jacket Color	yellow	
Type of Certificate	cURus	
Amount stranding	1	
Stranding	5 wires around Core filler twisted	
Filler	yes	
wire arrangement	brown, black, blue, white, green-yellow	
Cable weigth	41,8 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)	5 mm	
Tolerance outer diameter (sheath)	± 5 %	
Material wire insulation	PP	
Amount wires	5	
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)	42	
Diameter of single wires	0,1 mm	
Conductor crosssection (wire)	0,34 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	60 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	
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	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	

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Torsion stress	± 360 °/m	
Torsion speed	35 cycles/min	
Commercial data		
customs tariff number	85444290	
GTIN	4065909097045	
Packaging unit	1	

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