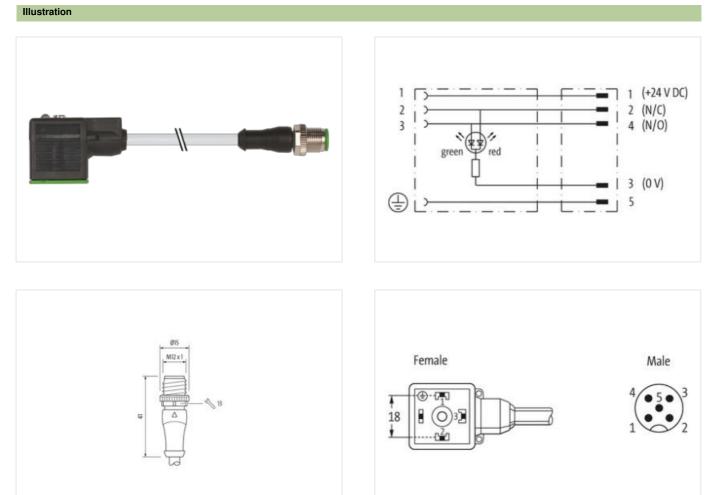


## M12 male 0° A-cod. / MSUD valve plug A-18mm

PUR 5x0.34 gy UL/CSA+robot+drag ch. 1.5m

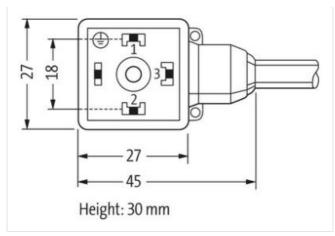
Form A (18 mm) – M12, male straight 24 V DC ±25% LED (red/green) for pressure switches Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product



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: 2024-05-20





Product may differ from Image



Side 1      Tighening torque    0.4 Nm      Family construction form    MSUD      Thread    M3      Degree of protection (EN IEC 60529)    IP67      Side 2    Image of protection form      Tightening torque    0.6 Nm      Family construction form    M12      Tightening torque    0.6 Nm      Family construction form    M12      With across flats    SW13      Degree of protection (EN IEC 60529)    IP67      Electrical data   Supply    Image of protection (EN IEC 60529)      Operating voltage DC    24 V      Operating voltage DC    24 V      Operating voltage DC main.    18 V      Operating voltage DC max.    30 V      Current operating per contact max.    4 A      Device protection [ Electrical    Image of the screwed      Pollution Degree    3      Retad surg voltage    0.8 kV      Mechanical data   Material data    Image of the screwed      Pollution Degree    3      Retad surg voltage    0.8 kV      Material housing    Image of the screwed      Material housing    Image of t		
Tiphening torque      0.4 Nm        Family construction form      MSUD        Thread      M3        Degree of protection (EN EC 60529)      IP67        Side 2	Cable length	1,5 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    Porating 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    Inserted, screwed      Pollution Degree    3      Rated surge voltage    0,8 kV      Mechanical data   Material data    Inserted, screwed      Mounting method    inserted, screwed      Pollution Degree    3      Rated surge voltage    Plastic      Mounting method    inserted, screwed      Pollution method    inserted, screwed      Pollution method    inserted, screwed      Pollution genee inserted, screwed    Pollution      Porating temperature min.    -25 °C      Operating temperature min.    -25 °C      Operating temperature max.    85 °C      Additional conditi	Thread	M3
Tightening torque      0.6 Nm        Family construction form      M12        Thread      M12 x 1        Widh across flats      SW13        Degree of protection (EN IEC 60529)      IP67        Electrical data   Supply      SW13        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 por contact max.      4 A        Device protection   Electrical      screwed        Polition Degree      3        Rated surge voltage      0.8 kV        Mechanical data   Maerial data      Surge voltage        Color housing      black        Material housing      Plastic        Mounting method      inserted, screwed        Environmetal characteristics   Climatic      Imaeted, screwed        Environmetal characteristics   Climatic      Screwed        Environmetal characteristics   Climatic      Imaeted, screwed        Environmetal characteristics   Climatic      Screwed        Environmetal characteristics   Climatic      Screwed        Environmetal char	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      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      Pollution Degree    3      Rated surge voltage    0,8 kV      Mechanical data   Material data    Color housing      Material housing    Plastic      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	Side 2	
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 main.  18 V    Operating voltage DC max.  30 V    Current operating per contact max.  4 A    Device protection   Electrical  Isserted, screwed    Polution Degree  3    Rated surge voltage  0,8 kV    Mechanical data   Material data  Isserted, screwed    Color housing  black    Material housing  Plastic    Mounting method  inserted, screwed    Portion method  inserted, screwed    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      Percention (EN IEC 60529)      IP67        Operating voltage DC      24 V      Operating voltage DC max.      30 V        Operating voltage DC max.      30 V      Operating voltage DC max.      4 A        Device protection   Electrical      4 A      Image: State St	Family construction form	M12
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      Additional condition protection degree    inserted, screwed      Pollution Degree    3      Rated surge voltage    0,8 kV      Mechanical data   Material data    Inserted, screwed      Color housing    black      Material housing    Plastic      Mechanical data   Mounting data    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	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    inserted, screwed      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      Mounting method    inserted, screwed      Porteing temperature min.    -25 °C      Operating temperature max.    85 °C      Additional condition temperature range    depending on cable quality	Width across flats	SW13
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        Additional condition protection degree      iserted, screwed        Pollution Degree      3        Rated surge voltage      0,8 kV        Mechanical data   Material data      Jack        Material housing      black        Mounting method      inserted, screwed        Environmental characteristics   Climatic      Screwed        Operating housing      black        Mounting method      inserted, screwed        Polyce protection   Electrical      Screwed        Environmental characteristics   Climatic      Screwed        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
Operating voltage DC min.    18 V      Operating voltage DC max.    30 V      Current operating per contact max.    4 A      Device protection   Electrical	Electrical data   Supply	
Operating voltage DC max.    30 V      Current operating per contact max.    4 A      Device protection   Electrical    4A      Additional condition protection degree    inserted, screwed      Pollution Degree    3      Rated surge voltage    0,8 kV      Mechanical data   Material data    0,8 kV      Color housing    black      Material housing    Plastic      Mounting method    inserted, screwed      Environmental characteristics   Climatic    -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    V      Color housing    black      Material housing    Plastic      Mounting method    inserted, screwed      Environmental characteristics   Climatic    verwed      Operating temperature min.    -25 °C      Operating temperature max.    85 °C      Additional condition temperature range    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 datainserted, screwedFurionmental characteristics   Climatic-25 °COperating 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       Color housing    black      Material housing    Plastic      Mechanical data   Mounting data       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	Additional condition protection degree	inserted, screwed
Mechanical data   Material data      Color housing    black      Material housing    Plastic      Mechanical data   Mounting data    Plastic      Mounting method    inserted, screwed      Environmental characteristics   Climatic    Color      Operating temperature min.    -25 °C      Operating temperature max.    85 °C      Additional condition temperature range    depending on cable quality	Pollution Degree	3
Color housing    black      Material housing    Plastic      Mechanical data   Mounting data    inserted, screwed      Mounting method    inserted, screwed      Environmental characteristics   Climatic    -25 °C      Operating temperature max.    85 °C      Additional condition temperature range    depending 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 min.    -25 °C      Operating temperature max.    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 min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending 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	

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: 2024-05-20



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	
vire arrangement	brown, black, blue, white, green-yellow
Cable identification	255
Cable Type	5
lacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	5 wires around Core filler twisted
Filler	yes
vire arrangement	brown, black, blue, white, green-yellow
Cable weigth	41,8 g/m
Naterial jacket	PUR
Shore hardness jacket	58 ± 3 Shore D
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Duter-diameter (jacket)	5 mm
olerance outer diameter (sheath)	± 5 %
Naterial wire insulation	PP
Amount wires	5
Duter diameter insulation	1,25 mm
Duter diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	74 ± 3 Shore D
ngredient 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
Iominal 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 - acket)	2,5 kV @ 60 s
fin. operating temperature (static)	-40 °C
Nax. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Dperating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
lame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
hemical resistance	Good, application-related testing
asoline resistance	Good, application-related testing
Dil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
raversing distance (C-track)	5 m @ 25 °C   horizontal
Fravel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	1 Mio.

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: 2024-05-20



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

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: 2024-05-20