

MSUD valve plug A-18mm with cable

PUR 3x0.75 bk UL/CSA+drag ch. 1.5m

MSUD Form A (18 mm) 24 V AC ±20% / DC ±25% LED and suppression Bridged PE

Further cable lengths on request.

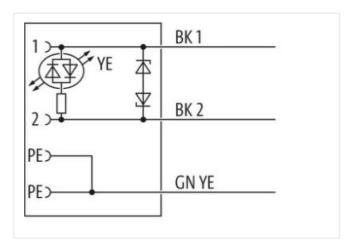
Plastic housings with good resistance against chemicals and oils.

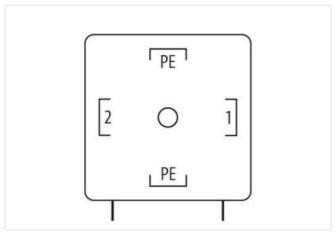
The resistance to aggressive media should be individually tested for your application. Further details on request.

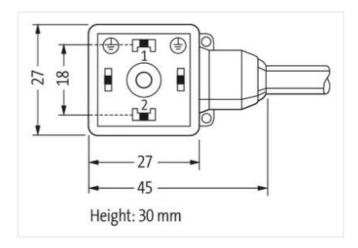
Link to Product

Illustration









Product may differ from Image









Cable length

1,5 m

Side 1



stay connected

Tightening torque	0,4 Nm
Mounting method	inserted, screwed
Family construction form	MSUD A
Thread	M3
Material	PBT
Degree of protection (EN IEC 60529)	IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060312
ECLASS-11.1	27060312
ECLASS-12.0	27060312
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879193535
Packaging unit	1
Electrical data	
Capacity CX	20 ms
Electrical data Supply	
Operating voltage AC	24 V
Operating voltage AC min.	19,2 V
Operating voltage AC max.	28,8 V
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Cut-off peak voltage max.	55 V
Current operating per contact max.	4 A
Current consumption max.	15 mA
Diagnostics	
Status indication LED	yellow
	yenow
Installation Connection	
Mounting set	M3
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	
Additional suppressor	Diode, Z-Diode
Mechanical data Material data	
Coating locking	verzinkt
Coating of fitting	verzinkt
Color housing	black
Material gasket	PUR
Locking material	Steel
Material screw connection	Steel
Mechanical data Mounting data	
Mounting method	inserted, screwed
Mounting mounds	moortea, corowed



stay connected

Important installation notes Note on strain relief Protect the Attention: rendangered installation Cable Cable identification 636 Cable Type 3 Printing color of wire insulation white (isolat Jacket Color black Type of Certificate CURus Amount stranding 1 Stranding 3 wires twis wire arrangement black 1, blac Traversing distance (C-track) 10 m @ 25 Cable weigth 56,1 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shor Freedom from ingredients (jacket) 1,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 3 Outer diameter insulation PP Amount wires 3 Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 1,85 mm Outer diameter tolerance core insulation 2 ± 5 Shor Ingredient freeness wire insulation Hadden 1,85 mm Outer diameter of single wires 0,15 mm Conductor crosssection (wire) 42 Diameter of single wires 0,15 mm Conductor type (wire) stranded or conductor type (wire) 2,5 kV @ 60 Prower frequency withstand voltage (wire - wire) 2,5 kV @ 60 Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 Max. operating temperature (fixed) 80 °C / 90 °C Max. operating temperature max. (dynamic) -25 °C		
Interportant installation notes Installation Cable Installatio		
lote on strain relief Protect the Attention: endangered endanger	on cable quality	
ote on bending radius Attention: endangered nstallation Cable able identification 636 able Type 3 rinting color of wire insulation white (isolated purpose) acket Color black yep of Certificate cURus mount stranding 1 tranding 3 wires twise ire arrangement black 1,		
nstallation Cable able identification 636 able identification 636 able Type 3 rinting color of wire insulation white (isolation in the color in	connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.	
table identification 636 table Type 3 trinting color of wire insulation white (isolat acket Color black ype of Certificate cURus mount stranding 1 tranding 3 wires twis fire arrangement black 1, blact raversing distance (C-track) 10 m @ 25 table weigth 56,1 g/m Ideterial jacket PUR Thore hardness jacket 90 ± 5 Shor reedom from ingredients (jacket) lead-free, civiller-diameter (jacket) 5,9 mm olerance outer diameter (sheath) ± 5 % Ideterial wire insulation PP Industrial wire insulation PP Industrial wire insulation 1,85 mm outer diameter insulation 1,85 mm outer diameter tolerance core insulation 5 % Thore hardness wire insulation 1,85 mm outer diameter tolerance core insulation 1,85 mm outer diameter of single wire insulation white (isolat mount strands (wire) 42 Industrial conductor wire 1,15 mm onductor crosssection (wire) 0,75 mm² Ideterial conductor wire 1,2 A Industrial conductor wire 2,5 kV @ 60 Industrial resistance line constant wire 2,5 kV @ 60 Industrial temperature (static) 40 °C Industrial temperature (static) 40 °C Idex operating temperature (static) 40 °C Idex operating temperature (static) 40 °C Idex operating temperature min. (dynamic) 2,5 °C Idex operating temperature max. (dynamic) 80 °C / 90 °C IV resistance IEC 60332- Industrial resistance IEC 60332- I	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	
Cable Type 3 Printing color of wire insulation white (isolated color black of Curitificate cursus white (isolated cursus of Cursus of Cartificate cursus of Cursus of Cartificate cursus of Cartificate cursus of Cable weight cursu		
Printing color of wire insulation white (isolated acket Color black Type of Certificate cURus Type of Certificate cure Type of Certificate Ty	636	
acket Color ype of Certificate mount stranding 1 stranding 3 wires twis fire arrangement black 1, black raversing distance (C-track) field weigth finder hardness jacket reedom from ingredients (jacket) puter-diameter (jacket) folerance outer diameter (sheath) finder insulation puter diameter insulation puter diameter insulation finder hardness wire insulation finder hardness	3	
Type of Certificate cURus Amount stranding 1 Stranding 3 wires twis Arice arrangement black 1, blant Traversing distance (C-track) 10 m @ 25 Cable weigth 56,1 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore Freedom from ingredients (jacket) lead-free, control Outer-diameter (jacket) 5,9 mm Follower diameter (jacket) 5,9 mm Follower frequences wire insulation 1,85 mm Follower frequences wire insulation white (isolated free) Follower freeness wire insulation white (isolated free) Follower freeness wire insulation white (isolated free) Follower freeness wire insulation white (isolated	white (isolation black)	
Amount stranding 1 Stranding 3 wires twis wire arrangement black 1, blar fraversing distance (C-track) 10 m @ 25 Cable weigth 56,1 g/m Material jacket PUR Schore hardness jacket 90 ± 5 Shore hardness jacket 10 lead-free, control of the freedom from ingredients (jacket) 10 lead-free, control of the freedom from ingredients (jacket) 10 lead-free, control of the freedom from ingredients (jacket) 10 lead-free, control of the freedom from ingredients (jacket) 10 lead-free, control of the freedom from ingredients (jacket) 10 lead-free, control of the freedom from ingredient free insulation 10 lead-free, control of the freedom from ingredient freeness wire insulation 10 lead-free, control of the freedom from ingredient freeness wire insulation 10 lead-free, control of the freedom from from from from from from from fr	black	
Stranding 3 wires twise plack 1, black	cURus	
black 1, bl	1	
raversing distance (C-track) Cable weigth Cable and a packet Cable and a p	3 wires twisted	
Cable weigth Material jacket PUR Shore hardness jacket Poet 5 Shore hardness jacket Freedom from ingredients (jacket) Duter-diameter (jacket) Material wire insulation Poet diameter insulation Puter diameter insulation Amount wires Duter diameter tolerance core insulation Printing color of wire insulation Printing color of wire insulation Material conductor wire Diameter of single wires Conductor type (wire) Material conductor wire Conductor type (wire) Material coad capacity (standard) Current load capacity (standard) Current load capacity (sitandard) Cover frequency withstand voltage (wire - acket) Min. operating temperature (static) Max. operating temperature max. (dynamic) Diameter lesistance Elame resistance DIN EN ISC Diameter of Song (dynamic) Diameter of Song (wine) Accidentical resistance DIN EN ISC Diameter of Song (wine) Diameter of Song (wine) Accidentical resistance DIN EN ISC Diameter of Song (dynamic) Diameter of Son	black 1, black 2, green-yellow	
Atterial jacket PUR whore hardness jacket 90 ± 5 Shore reedom from ingredients (jacket) lead-free, control of the properties of the prope	10 m @ 25 °C horizontal	
shore hardness jacket shore hardness jacket shore hardness jacket streedom from ingredients (jacket) streedom from ingredients (sheath) streedom from ingredient (sheath) streedom from ingredients (sheath) s		
Freedom from ingredients (jacket) Duter-diameter (jacket) Duter-diameter (jacket) Material wire insulation PP Mount wires Duter diameter insulation Duter diameter tolerance core insulation Duter diameter tolerance core insulation End the free comparison of the first simple content of the first simpl		
Outer-diameter (jacket) 5,9 mm Following of the content of t	e A	
Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 3 Duter diameter insulation 1,85 mm Duter diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore diameter tolerance wire insulation lead-free, contribution white (isolate wire) 42 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded or strand class diameter load capacity (standard) to DIN VDE Diameter load capacity (standard) to DIN VDE Conductor type (wire) 12 A Electrical resistance line constant wire 26 Ω/km @ Convert frequency withstand voltage (wire - 2,5 kV @ 60 Power frequency withstand voltage (wire - 40 °C Max. operating temperature (static) -40 °C Max. operating temperature min. (dynamic) -25 °C Deperating temperature max. (dynamic) 80 °C / 90 ° Diameter of single wires 0,15 kV @ 60 Diameter of single wires 0,15 kW @ 60 Diameter of single wires 0,15 k	admium-free, CFC-free, halogen-free, silicone-free	
Material wire insulation PP Amount wires 3 Duter diameter insulation 1,85 mm Duter diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore hardness wire insulation ingredient freeness wire insulation lead-free, or intring color of wire insulation white (isolate the mount strands (wire) 42 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded or Str		
Amount wires Duter diameter insulation Duter diameter tolerance core insulation Duter diameter tolerance core insulation Duter diameter tolerance core insulation To ± 5 Shore hardness wire insulation Description of the wire insulat		
Duter diameter insulation 1,85 mm Duter diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore hardness wire insulation lead-free, contributing color of wire insulation white (isolated and the properties) white (isolated and the properties) 1,15 mm Donductor of single wires 0,15 mm Donductor crosssection (wire) 0,75 mm² Donductor crosssection (wire) 0,75 mm² Donductor type (wire) stranded contribution of the properties of the p		
Duter diameter tolerance core insulation ±5 % shore hardness wire insulation 70 ± 5 Shore and the properties of the pro		
shore hardness wire insulation regredient freeness wire insulation white (isolation freeness) regredient freeness wire insulation regredient freeness reg		
rinting color of wire insulation white (isolat amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded of Conductor type (wire) strand class dominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ CO withstand voltage (wire - wire) 2,5 kV @ 60 Cower frequency withstand voltage (wire - acket) 40 °C Max. operating temperature (static) -40 °C Max. operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C Over resistance IEC 60332-ihemical resistance Electrical resistance Good, appli		
Printing color of wire insulation white (isolate Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded of Conductor type (wire) strand class along the Amount of th	e D	
Amount strands (wire) Algorithment of single wires Conductor crosssection (wire) Material conductor wire Conductor type (wire) Control load capacity (standard) Courrent load capacity (standard) Courrent load capacity min. wire Conductor type (wire) Courrent load capacity (standard) Courrent load capacity (standard) Courrent load capacity min. wire Conductor type (wire) 12 A Courrent load capacity (wire - wire) 2.5 kV @ 60 Cover frequency withstand voltage (wire - acket) Alin. operating temperature (static) Alin. operating temperature (fixed) Courrent load capacity (wire - wire) Cover frequency withstand voltage (wire - acket) Alin. operating temperature (fixed) Courrent load capacity (standard) Cover frequency withstand voltage (wire - acket) Alin. operating temperature (fixed) Cover frequency withstand voltage (wire - acket) Alin. operating temperature (fixed) Cover frequency withstand voltage (wire - acket) Co	admium-free, CFC-free, halogen-free, silicone-free	
Diameter of single wires O,15 mm Onductor crosssection (wire) O,75 mm² Stranded of St	ion black)	
Conductor crosssection (wire) Material conductor wire Stranded co Conductor type (wire) Strand class Conductor type (wire) Strand class Common voltage AC max. Courrent load capacity (standard) Courrent load capacity min. wire 12 A Electrical resistance line constant wire CO withstand voltage (wire - wire) Cower frequency withstand voltage (wire - acket) Max. operating temperature (static) Coperating temperature min. (dynamic) Coperating temperature max. (dynamic)		
Material conductor wire Stranded or Stranded or Strand class and class and class and class and class and class are strand class and class and class are strand class and class and class are strand class and command voltage AC max. Sourcent load capacity (standard) to DIN VDE and command to DIN VDE are strand class and class are strand class and class are strand class and class and class are strand class and class and class are strand class and class are strand class are strand class are strand class and class are strand class are strand class and class are strand class are strand class are strand class and class are strand class are strand class and class are strand class are strand class are strand class and class are strand class are		
Conductor type (wire) strand class Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ AC withstand voltage (wire - wire) 2,5 kV @ 60 Power frequency withstand voltage (wire - acket) 2,5 kV @ 60 Max. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 ° Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 ° JV resistance DIN EN ISC Elame resistance IEC 60332-1 chemical resistance Good, appli		
Nominal voltage AC max. Current load capacity (standard) Current load capacity min. wire 12 A Electrical resistance line constant wire AC withstand voltage (wire - wire) Cower frequency withstand voltage (wire - acket) Alin. operating temperature (static) Coperating temperature (fixed) Coperating temperature min. (dynamic) Coperating temperature max. (dynamic)	Stranded copper wire, bare	
Current load capacity (standard) Current load capacity min. wire 12 A Electrical resistance line constant wire AC withstand voltage (wire - wire) Cower frequency withstand voltage (wire - acket) Alin. operating temperature (static) Alin. operating temperature (fixed) Component temperature (fixed) Component temperature min. (dynamic) Component temperature max. (dynamic)	; 6	
Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 12 A 26 Ω/km @ 18 C withstand voltage (wire - wire) 2,5 kV @ 60 19 Cower frequency withstand voltage (wire - acket) 2,5 kV @ 60		
Electrical resistance line constant wire 26 Ω/km @ AC withstand voltage (wire - wire) 2,5 kV @ 60 Power frequency withstand voltage (wire - acket) 2,5 kV @ 60 AC withstand voltage (wire - acket) 40 °C AC AC Wax. operating temperature (static) 40 °C AC	to DIN VDE 0298-4	
AC withstand voltage (wire - wire) 2,5 kV @ 60 Power frequency withstand voltage (wire - 2,5 kV @ 60 Alin. operating temperature (static) Alin. operating temperature (fixed) Alin. operating temperature min. (dynamic) Alin. operating temperat		
Power frequency withstand voltage (wire - 2,5 kV @ 60 acket) Ain. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C Operating temperature max. (dynamic) BIN EN ISC Elame resistance IEC 60332-ihemical resistance Good, appli	20 °C	
Acket) Ain. operating temperature (static) Aix. operating temperature (fixed) Aix. operating temperature (fixed) Aix. operating temperature min. (dynamic) Aix. operating temperature max. (dynamic) Aix. operating temperature max. (dynamic) Aix. operating temperature max. (dynamic) Aix. operating temperature min. (dyna)s	
Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Oversitance DIN EN ISC Ilame resistance IEC 60332-inhemical resistance Good, appli) s	
Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 ° IV resistance DIN EN ISC Ilame resistance IEC 60332- hemical resistance Good, appli		
Operating temperature max. (dynamic) 80 °C / 90 ° IV resistance DIN EN ISC Iame resistance IEC 60332- hemical resistance Good, appli	C @ 10000 h Operation	
V resistance DIN EN ISC lame resistance IEC 60332-hemical resistance Good, appli		
lame resistance IEC 60332-i hemical resistance Good, appli	80 °C / 90 °C @ 10000 h Operation	
hemical resistance Good, appli	DIN EN ISO 4892-2 A	
, 11	IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090	
Cood anni	Good, application-related testing	
	cation-related testing	
	cation-related testing DIN EN 60811-404	
sending radius (fixed) 5 x Outer di		
Rending radius (dynamic) 10 x Outer of ravel speed (C-track) 10 Mio. @ 2		



No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min