

## MVP-METALL, 8XM12, 5POLE, PRE-WIRED CABLE

10.0m PUR 16x0,34+5x0,75, UL/CSA

8-way, 5-pole, DIAGNOSTIC 10.0 m

Operating current: 2 A per M12 (female)

integrated electronic current monitoring with shutoff

electronic diagnostic with ERROR LED

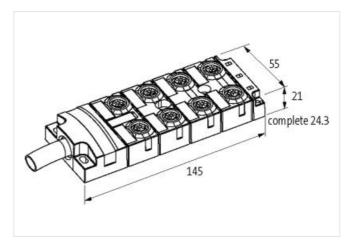
Further cable lengths on request.

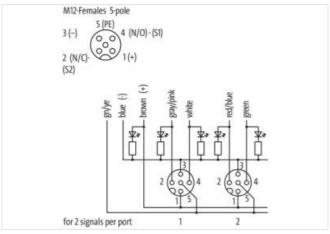
All M12 ports are current monitored regarding 0 V total current (contact 3), and are switched off in case of overload or short-circuit (self-reseting). Supply voltage of other ports remains the same. In case of a fault the DIAGNOSTIC signal "active high" to the PLC (wire "brown" 2) drops from 24 V DC to 0 V. The operator can immediately react by analysing the diagnostic signal.

## **Link to Product**

## Illustration







Product may differ from Image



## Commercial data



stay connected

### CECLASS-6.1		
ECLASS-7.0 27279219 ECLASS-8.0 27279219 ECLASS-9.0 27440108 ECLASS-9.0 27440108 ECLASS-10.1 27440108 ECLASS-11.1 27440108 ECLASS-11.1 27440108 ECLASS-12.0 27440108 ECLASS-12.0 27440108 ECLASS-12.0 1 27440108 ECLASS-12.0 1 27440108 ECLASS-12.0 27440108 ECLASS-13.0 EC002595 Eustoms tariff number 85444290 EDETIM-5.0 EC002595 Eustoms tariff number 85444290 EDETIM-5.0 EC002595 EUSTOM-5.0 EC00259 EUSTOM	ECLASS-6.0	
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ECLASS-9.0 27440108  ECLASS-10.1 27440108  ECLASS-11.1 27440108  ECLASS-11.1 27440108  ECLASS-12.0 27440108  ETIM-5.0 ECO2585  Sustoms tariff number 85444290  STIN 4048879063470  Packaging unit 1  Electrical data   Supply  Operating voltage DC 24 V  Current consumption max. 35 mA  Total current max. 10 A  Electrical data   Input  Current input full equipment min. 20 A  Current carrying capacity per port max. 2,5 A  Electrical data   Output  Diagnostic output max. 25 mA  Diagnostic output max. 25 mA  Diagnostic output active high  Current diagnostic output max. 25 mA  Diagnostic output max. 27 m  Device protection (EN IEC 60529) IP65, IP67, IP68  Additional condition protection degree inserted, screwed  Short-circuit current min. 2,3 A  Additional condition protection degree inserted, screwed  Short circuit current max. 2,7 A  Diagnostic current max. 2,7 A  Diagnostic current max. 2,7 A  Diagnostic current max. 2,7 A  Machanical data   Material data  Doating housing Nickeled  Material housing Zinc die-casting  Machanical data   Mounting data  Mounting method Schraubgewinde  Height 145 mm  Midth 55 mm  Depth 21 mm  Ervironmental characteristics   Climatic  Diperating temperature min20 °C  Conformity  Product standard EN 61131-2  Installation   Cable	ECLASS-7.0	
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Total current max. 10 A  Electrical data   Input  Current input full equipment min. 20 A  Current carrying capacity per port max. 2,5 A  Electrical data   Output  Diagnostic output 25 mA  Diagnostic output max. 25 mA  Diagnostics  Status indication LED green, red  Installation   Connection  Mounting set M12 x 1  Degree of protection   Electrical  Degree of protection (EN IEC 60529) IP65, IP67, IP68  Additional condition protection degree inserted, screwed  Short-circuit protected yes  Short circuit current max. 2,7 A  Deverload resistant yes  Overload resistant yes  Overload current min. 2,3 A  Coating housing Nickeled  Material housing Zinc die-casting  Mechanical data   Material data  Coating housing Nickeled  Method Schraubgewinde  Height 145 mm  Midth 55 mm  Depth 21 mm  Environmental characteristics   Climatic  Depreating temperature min20 °C  Conformity  Product standard EN 61131-2  Installation   Cable		
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Electrical data   Output  Diagnostic output active high Current diagnostic output max. 25 mA  Diagnostics  Status indication LED green, red  Installation   Connection  Mounting set M12 x 1  Device protection   Electrical Degree of protection (EN IEC 60529) IP65, IP67, IP68 Additional condition protection degree inserted, screwed Short-circuit protected yes Short circuit current min. 2,3 A Short circuit current max. 2,7 A Deveload current min. 2,3 A Overload resistant yes Overload current max. 2,7 A  Mechanical data   Material data Coating housing Nickeled Material housing Zinc die-casting  Mechanical data   Mounting data  Mounting method Schraubgewinde Height 145 mm  Midth 55 mm Depth 21 mm  Environmental characteristics   Climatic Depreating temperature min. 20 °C Conformity  Product standard Cable  Installation   Cable	Electrical data   Input	
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Diagnostic output active high Current diagnostic output max. 25 mA  Diagnostics Status indication LED green, red Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  Degree of protection (EN IEC 60529) IP65, IP67, IP68 Additional condition protection degree inserted, screwed Short-circuit protected yes Short circuit current min. 2,3 A Short circuit current max. 2,7 A  Diverload resistant yes  Diverload current max. 2,7 A  Mechanical data   Material data  Coating housing Nickeled Material housing Zinc die-casting  Mechanical data   Mounting data  Mounting method Schraubgewinde Height 145 mm  Width 55 mm  Depth 21 mm  Environmental characteristics   Climatic  Operating temperature max. 60 °C  Conformity  Product standard EN 61131-2  Installation   Cable	Current carrying capacity per port max.	2,5 A
Diagnostics Status indication LED green, red  Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  Degree of protection (EN IEC 60529) IP65, IP67, IP68 Additional condition protection degree inspection, screwed  Short-circuit protected yes Short circuit current min. 2,3 A Short circuit current max. 2,7 A  Diverload resistant yes  Diverload current min. 2,3 A  Diverload current max. 2,7 A  Mechanical data   Material data  Coating housing Nickeled  Material housing Zinc die-casting  Mechanical data   Mounting data  Mounting method Schraubgewinde  Height 145 mm  Midth 55 mm  Depth 21 mm  Environmental characteristics   Climatic  Diverloading temperature min20 °C  Conformity  Product standard EN 61131-2  Installation   Cable	Electrical data   Output	
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Device protection   Electrical  Degree of protection (EN IEC 60529) IP65, IP67, IP68 Additional condition protection degree inserted, screwed Short-circuit protected yes Short circuit current min. 2,3 A Short circuit current max. 2,7 A Deverload resistant yes Deverload current max. 2,3 A  Short circuit current max. 2,7 A  Deverload current max. 2,7 A  Mechanical data   Material data  Coating housing Nickeled Material housing Zinc die-casting  Mechanical data   Mounting data  Mounting method Schraubgewinde Height 145 mm  Width 55 mm  Depth 21 mm  Environmental characteristics   Climatic  Deparating temperature min20 °C  Conformity  Product standard EN 61131-2  Installation   Cable		N40 4
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Short circuit current min.  2,3 A Short circuit current max.  2,7 A Overload resistant  yes Overload current min.  2,3 A  Overload current min.  2,3 A  Overload current max.  2,7 A  Mechanical data   Material data Coating housing  Mickeled  Material housing  Mechanical data   Mounting data  Mounting method  Schraubgewinde  Height  145 mm  Width  55 mm  Depth  21 mm  Environmental characteristics   Climatic  Operating temperature min.  -20 °C  Conformity  Product standard  EN 61131-2  Installation   Cable	Additional condition protection degree	inserted, screwed
Short circuit current max.  2,7 A  Diverload current min.  2,3 A  Diverload current max.  2,7 A  Mechanical data   Material data  Coating housing  Material housing  Mechanical data   Mounting data  Mounting method  Height  Height  Hought  Som  Depth  Som  Depth  Environmental characteristics   Climatic  Deperating temperature min.  Conformity  Product standard  EN 61131-2  Installation   Cable		
Overload current min.  Overload current min.  Overload current max.  2,7 A  Mechanical data   Material data  Coating housing  Material housing  Mechanical data   Mounting data  Mounting method  Height  Midth  Softraubgewinde  Height  145 mm  Width  Softraubgewinde  Depth  21 mm  Environmental characteristics   Climatic  Operating temperature min.  -20 °C  Conformity  Product standard  EN 61131-2  Installation   Cable		
Diverload current min.  2,3 A  Diverload current max.  2,7 A  Mechanical data   Material data  Coating housing  Material housing  Mechanical data   Mounting data  Mounting method  Height  Height  145 mm  Width  55 mm  Depth  21 mm  Environmental characteristics   Climatic  Diperating temperature min.  -20 °C  Conformity  Product standard  EN 61131-2  Installation   Cable	Short circuit current max.	
Diverload current max. 2,7 A  Mechanical data   Material data Coating housing Nickeled Material housing Zinc die-casting  Mechanical data   Mounting data  Mounting method Schraubgewinde Height 145 mm  Width 55 mm Depth 21 mm  Environmental characteristics   Climatic  Operating temperature min20 °C Operating temperature max. 60 °C  Conformity  Product standard EN 61131-2  Installation   Cable		
Mechanical data   Material data Coating housing Material housing Zinc die-casting Mechanical data   Mounting data Mounting method Schraubgewinde Height 145 mm Width 55 mm Depth 21 mm  Environmental characteristics   Climatic Operating temperature min. Operating temperature max. 60 °C  Conformity Product standard EN 61131-2 Installation   Cable		
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Material housing Zinc die-casting  Mechanical data   Mounting data  Mounting method Schraubgewinde  Height 145 mm  Width 55 mm  Depth 21 mm  Environmental characteristics   Climatic  Operating temperature min20 °C  Operating temperature max. 60 °C  Conformity  Product standard EN 61131-2  Installation   Cable	Mechanical data   Material data	
Mechanical data   Mounting data  Mounting method Schraubgewinde  Height 145 mm  Width 55 mm  Depth 21 mm  Environmental characteristics   Climatic  Operating temperature min20 °C  Operating temperature max. 60 °C  Conformity  Product standard EN 61131-2  Installation   Cable	Coating housing	
Mounting method Schraubgewinde Height 145 mm  Width 55 mm Depth 21 mm  Environmental characteristics   Climatic  Operating temperature min. Operating temperature max. 60 °C  Conformity Product standard EN 61131-2  Installation   Cable	Material housing	Zinc die-casting
Height 145 mm  Width 55 mm  Depth 21 mm  Environmental characteristics   Climatic  Operating temperature min20 °C  Operating temperature max. 60 °C  Conformity  Product standard EN 61131-2  Installation   Cable	Mechanical data   Mounting data	
Width 55 mm  Depth 21 mm  Environmental characteristics   Climatic  Operating temperature min20 °C  Operating temperature max. 60 °C  Conformity  Product standard EN 61131-2  Installation   Cable	Mounting method	Schraubgewinde
Depth 21 mm  Environmental characteristics   Climatic  Operating temperature min20 °C  Operating temperature max. 60 °C  Conformity  Product standard EN 61131-2  Installation   Cable	Height	145 mm
Environmental characteristics   Climatic  Operating temperature min20 °C  Operating temperature max. 60 °C  Conformity  Product standard EN 61131-2  Installation   Cable	Width	55 mm
Operating temperature min.  -20 °C Operating temperature max.  60 °C  Conformity  Product standard  EN 61131-2  Installation   Cable	Depth	21 mm
Operating temperature min.  -20 °C Operating temperature max.  60 °C  Conformity  Product standard  EN 61131-2  Installation   Cable	Environmental characteristics   Climatic	;
Operating temperature max. 60 °C  Conformity  Product standard EN 61131-2  Installation   Cable		
Conformity Product standard EN 61131-2 Installation   Cable		
Product standard EN 61131-2  Installation   Cable		
Installation   Cable		EN 61121 2
		EN 01131-2
Cable identification 403		
	Cable identification	403

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: 2024-04-17



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Printing color of wire insulation	white (isolation blue), white (isolation brown)
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	5 wires around Core filler twisted
Stranding factor min.	70 mm
Stranding factor max.	70 mm
Amount stranding (type 2)	1
Stranding (type 2)	16 wires counter-rotating twisted
Stranding factor min. (type 2)	105 mm
Stranding factor max. (type 2)	105 mm
Banding	Fleece
Filler	yes
wire arrangement	(gray-pink, violet, brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, brown-green, yellow, green-white, green, red-blue, white), brown 1, blue 2, brown 2, green-yellow, blue 1
No. of bending cycles (C-track)	5 Mio. @ 25 °C
Cable weigth	253 g/m
	PUR PUR
Material jacket	
Shore hardness jacket	85 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free
Outer-diameter (jacket)	11,5 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	TPE
Amount wires	5
Outer diameter insulation	1,8 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	55 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free, silicone-free, LABS-free
Printing color of wire insulation	white (isolation blue), white (isolation brown)
Amount strands (wire)	96
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Material wire insulation (Data)	TPE
Outer diameter wire insulation (Data)	1,4 mm
Tolerance outer diameter wire insulation (data)	±5%
Shore hardness wire insulation (Data)	55 ± 5 Shore D
Ingredient freeness wire insulation (Data)	lead-free, CFC-free, halogen-free, silicone-free, LABS-free
Amount wires (Data)	16
Amount strands wire (Data)	42
Diameter of single wires (Data)	0,1 mm
Conductor crosssection wire (Data)	0,34 mm <sup>2</sup>
Material conductor wire (Data)	Stranded copper wire, bare
Wire conductor type (Data)	strand class 6
Traversing distance (C-track)	1,8 m @ 25 °C
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	9 A
Current load capacity min. Wire (Data)	4 A
Electrical resistance line constant wire	26 Ω/km @ 20 °C
Electrical resistance coating wire (Data)	57 Ω/km @ 20 °C
Max. rated voltage power (conductor - ground)	300 V
Max. rated voltage power (conductor -	
conductor)	500 V



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Power frequency withstand voltage power (wire - jacket)	2 kV @ 60 s	
AC withstand voltage power (wire - wire)	2 kV @ 60 s	
Min. operating temperature (static)	-40 °C	
Max. operating temperature (fixed)	90 °C	
Operating temperature min. (dynamic)	-25 °C	
Operating temperature max. (dynamic)	80 °C	
Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090	
chemical resistance	Good, application-related testing	
Gasoline resistance	Good, application-related testing	
Oil resistance	Good, application-related testing   DIN EN 60811-404	
Bending radius (installation)	x Outer diameter	
Bending radius (fixed)	5 x Outer diameter	
Bending radius (dynamic)	10 x Outer diameter	
Connection type 2		
Family construction form	free cable end	
No. of poles	21	
Family construction form	M12	
Gender	female	
Color contact carrier	black	
Coding	A	
No. of poles	5	
PIN 1	+	
PIN 2	NC S 2	
PIN 3	-	
	NO S 1	
PIN 4	NO 5 I	