

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

5.0m PUR 16x0,34+5x0,75, UL/CSA

8-way, 5-pole, DIAGNOSTIC

5.0 m

Operating current: 2 A per M12 (female)

integrated electronic current monitoring with shutoff

electronic diagnostic with ERROR LED

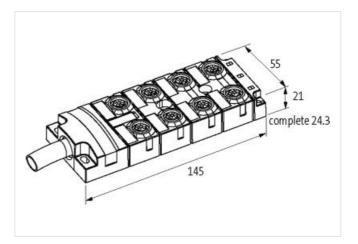
Further cable lengths on request.

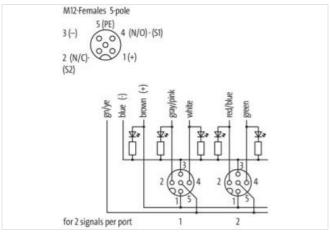
All M12 ports are current monitored regarding 0 V total current (contact 3), and are switched off in case of overload or short-circuit (self-reseting). Supply voltage of other ports remains the same. In case of a fault the DIAGNOSTIC signal "active high" to the PLC (wire "brown" 2) drops from 24 V DC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

### **Link to Product**

#### Illustration







Product may differ from Image



#### Commercial data



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ECLASS-6.0 27279219 ECLASS-7.0 27279219 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 2740108 ENGLASS-12.0 2740108 EN		
ECLASS-7.0   27279219	ECLASS-6.0	27279219
ECLASS-8.0 27740108 ECLASS-10.1 27440108 ECLASS-11.1 27440108 ECLASS-11.1 27440108 ECLASS-11.1 27440108 ECLASS-12.0 27440108 ETIM-5.0 ECO02585 Customs taff number 85444290 GTIN 4048879063487 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 input full equipment min. 25 mA  Electrical data   Output 25 mA  Electrical data   Output 30 max. 25 mA  Electrical data   Output 30 max. 35 max. 35 mA  Electrical data   Output 3		
ECLASS-9.0         27440108           ECLASS-10.1         27440108           ECLASS-11.1         27440108           ECLASS-12.0         27440108           ETIM-5.0         EC002585           customs tariff number         85444290           GTIN         4048879083487           Packaging unit         1           Electrical data   Supply           Operating voltage DC           Current consumption max.         35 mA           Total current max.         10 A           Electrical data   Input           Current carrying capacity per port max.           Electrical data   Output           Current diagnostic output           Status indication LED           Installation   Connection           Mounting set           M12 x 1           Device protection   Electrical           Degree of protection   Electrical		
ECLASS-10.1   27440108   ECLASS-11.1   27440108   ECLASS-11.1   27440108   ECLASS-11.1   27440108   ECLASS-12.0   27440108   ETIM-5.0   EC002585   ECUSTON STAIRT number   85444290   ETIM-5.0   EC002585   ECUSTON STAIRT number   85444290   ECUTOMOSTON STAIRT NUMBER   ECUTOMOSTON S		
ECLASS-12.0         27440108           ECLASS-12.0         27440108           ETIM-5.0         EC002585           customs tariff number         85444290           GTIN         4048879063487           Packaging unit         1           Electrical data   Supply           Operating voltage DC         24 V           Current consumption max.         35 mA           Total current max.         10 A           Electrical data   Input         20 A           Current carrying capacity per port max.         2.5 A           Electrical data   Output         active high           Current diagnostic output max.         25 mA           Diagnostice         Status indication LED           Installation   Connection         Whounting set           Mounting set         M12 x 1           Device protection   Electrical           Degree of protection (EN IEC 60529)         IP65, IP67, IP68           Additional condition protection degree         inserted, screwed           Overload resistant         yes           Short-circuit current min.         2,3 A           Short circuit current max.         2,7 A           Overload current max.         2,7 A           Overload current max. <td< td=""><td></td><td></td></td<>		
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ETIM-5.0		
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Electrical data   Supply		
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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  Overload resistant yes Short-circuit protected yes Short-circuit current min. 2,3 A Short circuit current min. 2,7 A  Overload current min. 2,7 A  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  Width 55 mm  Depth 21 mm  Environmental characteristics   Climatic  Operating temperature max. 60 °C  Conformity  Product standard EN 61131-2	Current input full equipment min.	20 A
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  Overload resistant yes  Short-circuit protected yes  Short circuit current min. 2,3 A  Short circuit current max. 2,7 A  Overload current max. 2,7 A  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  Width 55 mm  Depth 21 mm  Environmental characteristics   Climatic  Operating temperature min20 °C  Coproduct standard EN 61131-2	Current carrying capacity per port max.	2,5 A
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Material housing  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.  Conformity  Product standard  Zinc die-casting  Schraubgewinde  145 mm  21 mm  Conformity  Environmental characteristics   Climatic  Product standard  EN 61131-2	Mechanical data   Material data	
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Mounting method  Height  145 mm  Width  55 mm  Depth  21 mm  Environmental characteristics   Climatic  Operating temperature min.  Operating temperature max.  Conformity  Product standard  Schraubgewinde  45 mm  55 mm  20 °C  Conformity  EN 61131-2	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	Mechanical data   Mounting data	
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Width 55 mm  Depth 21 mm  Environmental characteristics   Climatic  Operating temperature min20 °C  Operating temperature max. 60 °C  Conformity  Product standard EN 61131-2		
Depth 21 mm  Environmental characteristics   Climatic  Operating temperature min20 °C  Operating temperature max. 60 °C  Conformity  Product standard EN 61131-2		
Operating temperature min.  -20 °C Operating temperature max.  60 °C  Conformity  Product standard  EN 61131-2		21 mm
Operating temperature min.  -20 °C Operating temperature max.  60 °C  Conformity  Product standard  EN 61131-2	Environmental characteristics   Climatic	
Operating temperature max. 60 °C  Conformity  Product standard EN 61131-2		
Conformity Product standard EN 61131-2		
Product standard EN 61131-2		
		EN 04464 3
Installation   Cable		EN 61131-2
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: 2024-04-19



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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	-
PIN 4	NO S 1
PIN 5	PE