



Pushing Performance
Since 1945

M12 MAGNETICS X.CODED STRAIGHT POE 10 GB



Image is for illustration purposes only. Please refer to product description.

Part number	21 03 381 2825
Specification	M12 MAGNETICS X.CODED STRAIGHT POE 10 GB
HARTING eCatalogue	https://harting.com/21033812825

Identification

Category	Connectors
Series	Circular connectors M12
Identification	Magnetics PushPull
Element	PCB adapter
Specification	with integrated transformer Straight incl. housing Power over Ethernet (PoE+) for front mounting

Version

Termination method	Reflow soldering termination (SMT)
Gender	Female
Shielding	Shielded
Number of contacts	8
Coding	X-coding
Locking type	Screw locking PushPull

Technical characteristics

Rated current	0.8 A
Rated voltage	57 V
Rated impulse voltage	1.5 kV
Pollution degree	3



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Technical characteristics

Data rate	10 Mbit/s
	100 Mbit/s
	1 Gbit/s
	2.5 Gbit/s
	5 Gbit/s
	10 Gbit/s
Insulation resistance	$>10^8 \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Tightening torque	2 Nm Lock nut
Limiting temperature	-40 ... +85 °C (during reflow soldering max. +245)
Insertion force	30 N
Withdrawal force	30 N
Mating cycles	≥ 100
Degree of protection acc. to IEC 60529	IP65 / IP67 mated condition
Isolation group	IIIa ($175 \leq \text{CTI} < 400$)
Process Sensitivity Level (PSL)	R7 acc. to ECA/IPC/JEDEC J-STD-075

Material properties

Material (insert)	Liquid crystal polymer (LCP)
Colour (insert)	Black
Material (contacts)	Brass
Surface (contacts)	Au over Ni Mating side
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	6(c): Copper alloy containing up to 4 % lead by weight
ELV status	compliant with exemption
China RoHS	50
REACH Annex XVII substances	Not contained
REACH ANNEX XIV substances	Not contained
REACH SVHC substances	Yes
REACH SVHC substances	Lead
ECHA SCIP number	0d7d3693-d625-47ab-934a-d241bf72c86e
California Proposition 65 substances	Yes
California Proposition 65 substances	Lead Nickel
Fire protection on railway vehicles	EN 45545-2 (2020-08) + A1 (2023-10)



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Material properties

Requirement set with Hazard Levels R26

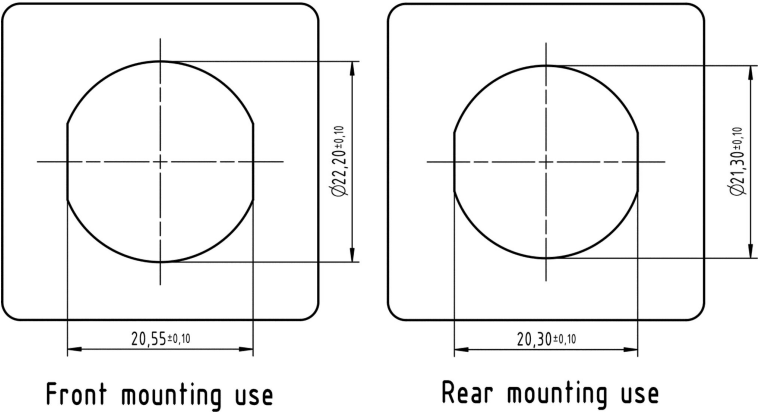
Specifications and approvals

Specifications	IEC 61076-2-109
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Commercial data

Packaging size	1
Net weight	23 g
Country of origin	China
European customs tariff number	85366990
GTIN	5713140228931
eCl@ss	27460201 PCB connector (board connector)
ETIM	EC002637
UNSPSC 24.0	39121415

Panel cut out





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General information

