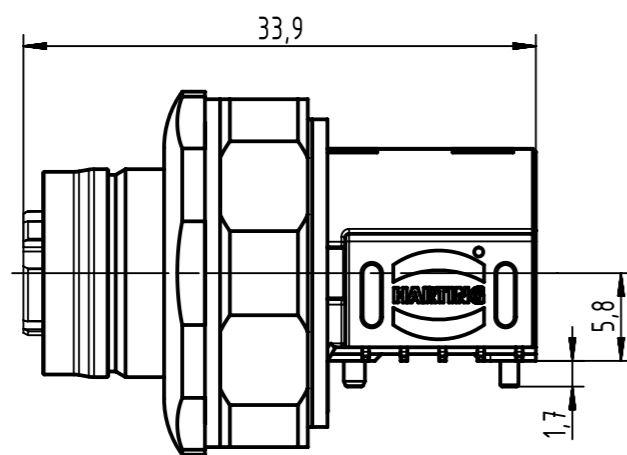
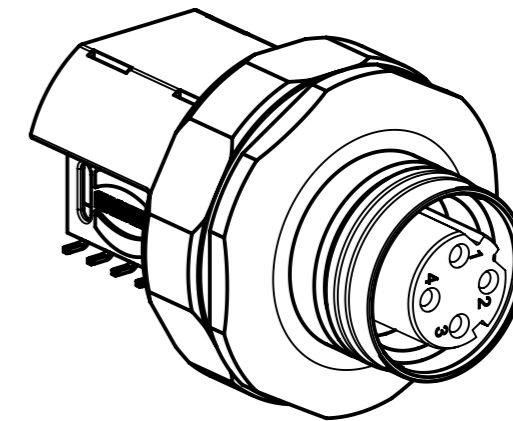
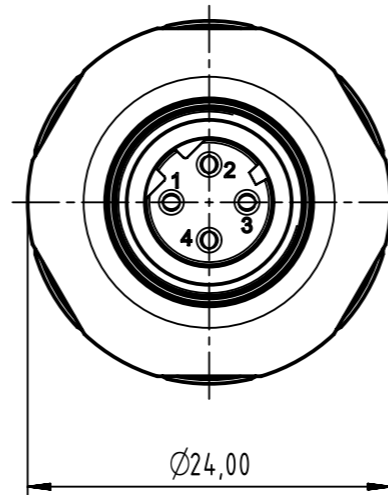


mating face based on  
IEC 61076-2-101




1 PC Packaging

Content: 1 x 21033814421

M12 transformer angled D-coded 10/100 BASE-T

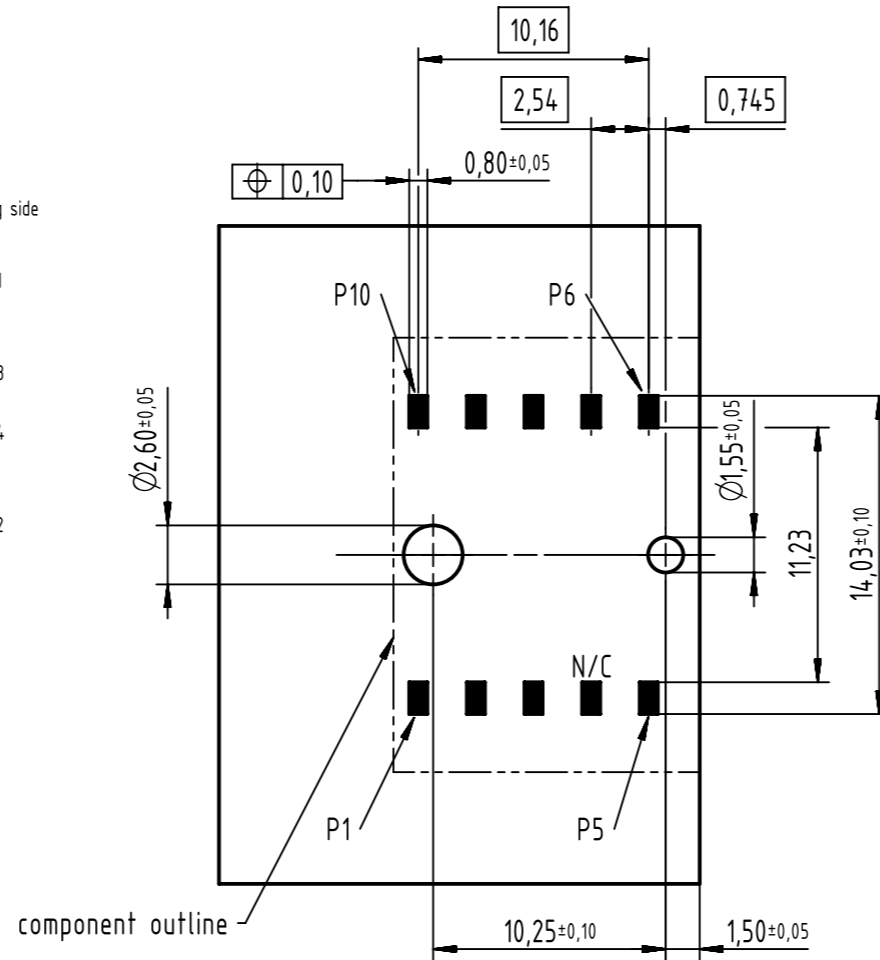
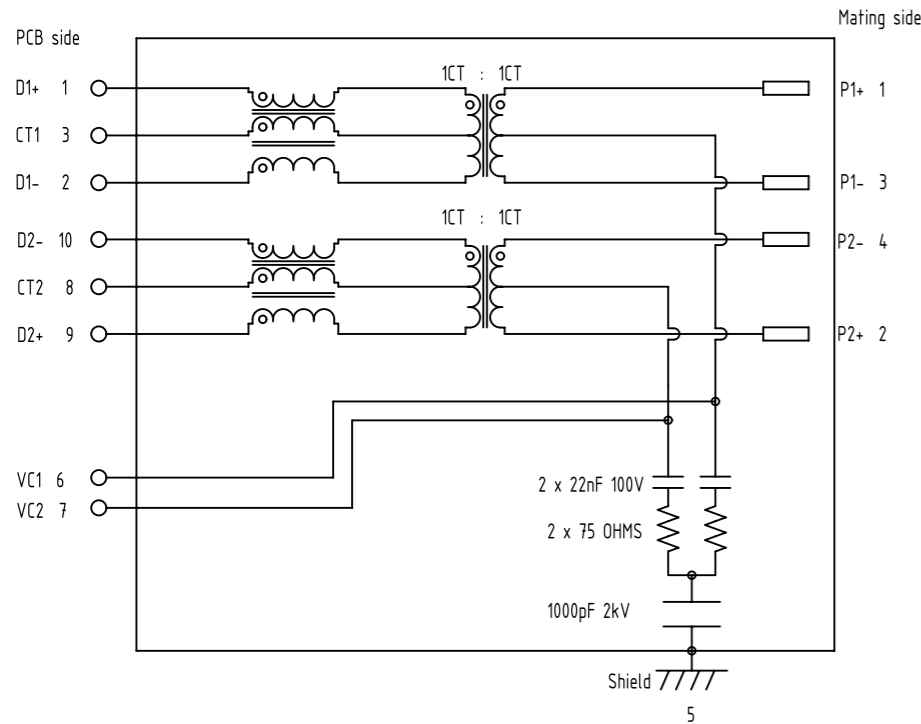
1 x 21033012006

Front mounting kits

	All Dimensions in mm Original Size DIN A3		Scale 2:1	Free size tol.		Ref.	
	All rights reserved Department EL PD		Created by ZENGO	Inspected by LUOK	Standardisation KOHLER	Date 2018-04-27	State Final Release
HARTING Electronics GmbH D-32339 Espelkamp		Title M12 WITH MAGNETICS D-CODED ANGLED POE+ FAST ETHERNET				Doc-Key / ECM-Nr. 100686310/UGD/004/B 500000134532	
		Type TB	Number 21033814422			Rev. B	Page 1/2

# Recommended PCB layout

## Schematic



Electrical Characteristics @+25°C unless otherwise noted  
 Meets IEEE802.3 specification  
 RoHS compliant

Parameter	Specification/ Limit Values	
Operating Temperature	-40°C - +85°C	
Turn Ratio (+/- 2%)	1CT : 1CT	
Current Capacity Pins 1-8/ VC1-VC4	750mA DC	
OCL	min 350µH @ 100KHz , 100mV with 8mA bias current	
Isolation (Input- Output)	1.5kV VAC RMS , for 60sec. min	
Insertion Loss	$f \leq 0.3\text{MHz}$	$0.3\text{MHz} < f \leq 100\text{MHz}$
	-3dB max	$-0.6 - 0.002 * f^{1.25}$
Return Loss	$f \leq 10\text{MHz}$	$10\text{MHz} < f \leq 100\text{MHz}$
	-19dB min	$-19 + 10 * \log(f/10)$
Crosstalk	$f \leq 10\text{MHz}$	$10\text{MHz} < f \leq 100\text{MHz}$
	-40dB min	$-40 + 10 * \log(f/10)$
CMRR	$f \leq 10\text{MHz}$	$10\text{MHz} < f \leq 100\text{MHz}$
	-40dB min	$-40 + 20 * \log(f/10)$
CDMR	$f \leq 10\text{MHz}$	$10\text{MHz} < f \leq 100\text{MHz}$
	-45dB min	$-45 + 18 * \log(f/10)$

NOTE: f is the frequency in MHz

N/C: leave pins open, not connect to GND or VCC

	All rights reserved Department EL PD	All Dimensions in mm Original Size DIN A3		Scale 2:1	Free size tol.	Ref.	
		Created by ZENGDO	Inspected by LUOK	Standardisation KOHLER	Date 2018-04-27	State Final Release	Sub.
HARTING Electronics GmbH D-32339 Espelkamp		Title M12 WITH MAGNETICS D-CODED ANGLED POE+ FAST ETHERNET				Doc-Key / ECM-Nr. 100686310/UGD/004/B 500000134532	
		Type TB	Number 21033814422			Rev. B	Page 2/2