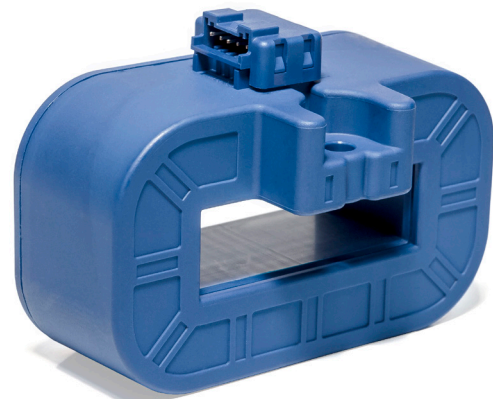


For the electronic measurement of current: DC, AC, pulsed..., with galvanic separation between the primary and the secondary circuit.



Features

- Open loop multi-range current transducer
- Voltage output
- Single supply +5 V
- Overcurrent detect $2.93 \times I_{PN}$ (peak value)
- Galvanic separation between primary and secondary circuit
- Low power consumption
- For busbar mounting
- Aperture: $40 \times 13 \text{ mm}$
- Factory calibrated
- Mating JST connector:
 - housing PAP-05V-S
 - contact SPHD-00xT-P0.5.

Advantages

- Low offset drift
- Over-drivable V_{ref}
- Creepage / clearance $> 10.5 \text{ mm}$
- Fast response
- Low profile 2 mm pitch connector for 22 to 28 AWG wire.

Applications

- AC variable speed and servo motor drives
- Static converters for DC motor drives
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Power supplies for welding applications
- Combiner box
- Solar inverter on DC side of the inverter (MPPT).

Standards

- IEC 61800-2: 2015
- IEC 61800-3: 2004
- IEC 61800-5-1: 2007
- IEC 62109-1: 2010
- UL 508: 2013.

Application Domain

- Industrial.

Absolute maximum ratings

Parameter	Symbol	Unit	Value
Supply voltage (not destructive)	U_C	V	8
Supply voltage (not entering non standard modes)	U_C	V	6.5
Primary conductor temperature	T_B	°C	120
Electrostatic discharge voltage	U_{ESD}	kV	2

Stresses above these ratings may cause permanent damage. Exposure to absolute maximum ratings for extended periods may degrade reliability.

UL 508: Ratings and assumptions of certification

File # E189713 Volume: 2 Section: 5

Standards

- CSA C22.2 NO. 14-10 INDUSTRIAL CONTROL EQUIPMENT - Edition 12
- UL 508 STANDARD FOR INDUSTRIAL CONTROL EQUIPMENT - Edition 17

Ratings

Parameter	Symbol	Unit	Value
Primary potential involved		V AC/DC	600
Max surrounding air temperature	T_A	°C	100
Primary current	I_P	A	According to series primary current
Secondary supply voltage	U_C	V DC	5
Output voltage	V_{out}	V	0 to 5

Conditions of acceptability

- 1 - These devices have been evaluated for overvoltage category III and for use in pollution degree 2 environment.
- 2 - A suitable enclosure shall be provided in the end-use application.
- 3 - The terminals have not been evaluated for field wiring.
- 5 - Primary terminals shall not be straightened since assembly of housing case depends upon bending of the terminals.
- 6 - Any surface of polymeric housing have not been evaluated as insulating barrier.
- 7 - Low voltage control circuit shall be supplied by an isolating source (such as a transformer, optical isolator, limiting impedance or electro-mechanical relay).

Marking

Only those products bearing the UR Mark should be considered to be Listed or Recognized and covered under UL's Follow-Up Service. Always look for the Mark on the product.

Insulation coordination

Parameter	Symbol	Unit	Value	Comment
RMS voltage for AC insulation test 50/60 Hz/1 min	U_d	kV	5.1	
Impulse withstand voltage 1.2/50 μ s	\hat{U}_w	kV	9.6	
Partial discharge test voltage ($q_m < 10$ pC)	u_t	V	1650	Busbar/secondary. According to: IEC 61800-5-1 IEC 62109-1
Clearance (pri. - sec.)	d_{Cl}	mm	> 10.5	Shortest distance through air
Creepage distance (pri. - sec.)	d_{Cp}	mm	> 10.5	Shortest path along device body
Case material	-	-	V0 according to UL 94	
Comparative tracking index	<i>CTI</i>		600	
Application example	-	-	600 V CAT III PD2	Reinforced insulation according to IEC 61800-5-1
Application example	-	-	1000 V CAT III PD2	Basic insulation, non uniform field according to IEC 61800-5-1
Application example	-	-	600 V CAT III PD2	According to UL 508

Environmental and mechanical characteristics

Parameter	Symbol	Unit	Min	Typ	Max	Comment
Ambient operating temperature	T_A	°C	-40		105	
Ambient storage temperature	T_S	°C	-40		105	
Mass	m	g		232		

Electrical data HOYL 200-S-0100

 At $T_A = 25\text{ °C}$, $U_C = +5\text{ V}$, $R_L = 10\text{ k}\Omega$ unless otherwise noted (see Min, Max, typ. definition paragraph in page 12).

Parameter	Symbol	Unit	Min	Typ	Max	Comment
Primary nominal RMS current	I_{PN}	A		200		
Primary current, measuring range	I_{PM}	A	-500		500	$2.5 \times I_{PN} @ U_C \geq 4.6\text{ V}$
Number of primary turns	N_P	-		1		Bus bar
Supply voltage ¹⁾	U_C	V	4.5	5	5.5	
Current consumption	I_C	mA		19	25	
Reference voltage (output)	V_{ref}	V	2.48	2.5	2.52	Internal reference
Reference voltage (input)	V_{ref}	V	0.5		2.65	External reference
Output voltage range @ I_{PM}	$V_{out} - V_{ref}$	V	-2		2	Over operating temperature range
V_{ref} output resistance	R_{ref}	Ω	130	200	300	Series
V_{out} output resistance	R_{out}	Ω		2	5	Series
Allowed capacitive load	C_L	nF	0		6	
Overcurrent detection output on resistance	R_{on}	Ω	70	95	150	Open drain, active low Over operating temperature range
Overcurrent detection hold	t_{hold}	ms	0.7	1	1.4	Additional time after threshold has released
EEPROM control	V_{out}	mV	0		50	V_{out} forced to GND when EEPROM in an error state ²⁾
Electrical offset voltage @ $I_P = 0\text{ A}$	V_{OE}	mV	-5		5	$V_{out} - V_{ref} @ V_{ref} = 2.5\text{ V}$
Electrical offset current Referred to primary	I_{OE}	A	-1.25		1.25	
Temperature coefficient of V_{ref}	TCV_{ref}	ppm/K	-170		170	-40 °C ... 105 °C
Temperature coefficient of V_{OE}	TCV_{OE}	mV/K	-0.075		0.075	-40 °C ... 105 °C
Temperature coefficient of I_{OE} @ $I_P = 0\text{ A}$	TCI_{OE}	mA/K	-18.75		18.75	-40 °C ... 105 °C
Theoretical sensitivity	G_{th}	mV/A		4		800 mV @ I_{PN}
Sensitivity error @ I_{PN}	ϵ_G	%	-0.5		0.5	Factory adjustment
Temperature coefficient of G	TCG	ppm/K	-250		250	-40 °C ... 105 °C
Linearity error 0 ... I_{PN}	ϵ_L	% of I_{PN}	-0.5		0.5	
Linearity error 0 ... I_{PM}	ϵ_L	% of I_{PM}	-0.5		0.5	
Magnetic offset current (@ $10 \times I_{PN}$) referred to primary	I_{OM}	A	-1.27		1.27	One turn
Reaction time @ 10 % of I_{PN}	t_{ra}	μs		3	3.5	@ 100 A/ μs
Response time @ 90 % of I_{PN}	t_r	μs		3	3.5	@ 100 A/ μs
Frequency bandwidth (-3 dB)	BW	kHz		140		Small signal
Output RMS noise voltage (spectral density) 100 Hz ... 100 kHz	e_{no}	$\mu\text{V}/\sqrt{\text{Hz}}$		7.4		
Output RMS noise voltage (DC ... 10 kHz) (DC ... 100 kHz) (DC ... 1 MHz)	V_{no}	mVpp		4.5 7.7 12.5		
Primary current, detection threshold	I_{PTH}	A	$2.64 \times I_{PN}$	$2.93 \times I_{PN}$	$3.22 \times I_{PN}$	Peak value $\pm 10\%$, overcurrent detection OCD
Accuracy @ I_{PN}	X	% of I_{PN}	-1		1	
Accuracy @ I_{PN} @ $T_A = +105\text{ °C}$	X	% of I_{PN}	-3.8		3.8	
Accuracy @ I_{PN} @ $T_A = +85\text{ °C}$	X	% of I_{PN}	-3.1		3.1	See formula note ³⁾

 Notes: ¹⁾ 3.3 V SP version available

²⁾ EEPROM in an error state makes the transducer behave like a reverse current saturation. Use of the OCD may help to differentiate the two cases

³⁾ Accuracy @ T_A (% of I_{PN}) = $X + \left(\frac{TCG}{10000} \times (T_A - 25) + \frac{TCI_{OE}}{1000 \times I_{PN}} \times 100 \times (T_A - 25) \right)$.

Electrical data HOYL 400-S-0100

 At $T_A = 25\text{ °C}$, $U_C = +5\text{ V}$, $R_L = 10\text{ k}\Omega$ unless otherwise noted (see Min, Max, typ. definition paragraph in page 12).

Parameter	Symbol	Unit	Min	Typ	Max	Comment
Primary nominal RMS current	I_{PN}	A		400		
Primary current, measuring range	I_{PM}	A	-1000		1000	$2.5 \times I_{PN} @ U_C \geq 4.6\text{ V}$
Number of primary turns	N_p	-		1		Bus bar
Supply voltage ¹⁾	U_C	V	4.5	5	5.5	
Current consumption	I_C	mA		19	25	
Reference voltage (output)	V_{ref}	V	2.48	2.5	2.52	Internal reference
Reference voltage (input)	V_{ref}	V	0.5		2.65	External reference
Output voltage range @ I_{PM}	$V_{out} - V_{ref}$	V	-2		2	Over operating temperature range
V_{ref} output resistance	R_{ref}	Ω	130	200	300	Series
V_{out} output resistance	R_{out}	Ω		2	5	Series
Allowed capacitive load	C_L	nF	0		6	
Overcurrent detection output on resistance	R_{on}	Ω	70	95	150	Open drain, active low Over operating temperature range
Overcurrent detection hold	t_{hold}	ms	0.7	1	1.4	Additional time after threshold has released
EEPROM control	V_{out}	mV	0		50	V_{out} forced to GND when EEPROM in an error state ²⁾
Electrical offset voltage @ $I_p = 0\text{ A}$	V_{OE}	mV	-5		5	$V_{out} - V_{ref} @ V_{ref} = 2.5\text{ V}$
Electrical offset current Referred to primary	I_{OE}	A	-2.5		2.5	
Temperature coefficient of V_{ref}	TCV_{ref}	ppm/K	-170		170	-40 °C ... 105 °C
Temperature coefficient of V_{OE}	TCV_{OE}	mV/K	-0.075		0.075	-40 °C ... 105 °C
Temperature coefficient of I_{OE} @ $I_p = 0\text{ A}$	TCI_{OE}	mA/K	-37.5		37.5	-40 °C ... 105 °C
Theoretical sensitivity	G_{th}	mV/A		2		800 mV @ I_{PN}
Sensitivity error @ I_{PN}	ϵ_G	%	-0.5		0.5	Factory adjustment
Temperature coefficient of G	TCG	ppm/K	-250		250	-40 °C ... 105 °C
Linearity error 0 ... I_{PN}	ϵ_L	% of I_{PN}	-0.5		0.5	
Linearity error 0 ... I_{PM}	ϵ_L	% of I_{PM}	-0.5		0.5	
Magnetic offset current (@ $10 \times I_{PN}$) referred to primary	I_{OM}	A	-1.27		1.27	One turn
Reaction time @ 10 % of I_{PN}	t_{ra}	μs		3	3.5	@ 100 A/ μs
Response time @ 90 % of I_{PN}	t_r	μs		3	3.5	@ 100 A/ μs
Frequency bandwidth (-3 dB)	BW	kHz		140		Small signal
Output RMS noise voltage (spectral density) 100 Hz ... 100 kHz	e_{no}	$\mu\text{V}/\sqrt{\text{Hz}}$		6.1		
Output RMS noise voltage (DC ... 10 kHz) (DC ... 100 kHz) (DC ... 1 MHz)	V_{no}	mVpp		4.3 6.4 9.7		
Primary current, detection threshold	I_{PTh}	A	$2.64 \times I_{PN}$	$2.93 \times I_{PN}$	$3.22 \times I_{PN}$	Peak value $\pm 10\%$, overcurrent detection OCD
Accuracy @ I_{PN}	X	% of I_{PN}	-1		1	
Accuracy @ I_{PN} @ $T_A = +105\text{ °C}$	X	% of I_{PN}	-3.8		3.8	See formula note ³⁾
Accuracy @ I_{PN} @ $T_A = +85\text{ °C}$	X	% of I_{PN}	-3.1		3.1	

 Notes: ¹⁾ 3.3 V SP version available

²⁾ EEPROM in an error state makes the transducer behave like a reverse current saturation. Use of the OCD may help to differentiate the two cases

³⁾ Accuracy @ T_A (% of I_{PN}) = $X + \left(\frac{TCG}{10000} \times (T_A - 25) + \frac{TCI_{OE}}{1000 \times I_{PN}} \times 100 \times (T_A - 25) \right)$.

Electrical data HOYL 600-S-0100

 At $T_A = 25\text{ °C}$, $U_C = +5\text{ V}$, $R_L = 10\text{ k}\Omega$ unless otherwise noted (see Min, Max, typ. definition paragraph in page 12).

Parameter	Symbol	Unit	Min	Typ	Max	Comment
Primary nominal RMS current	I_{PN}	A		600		
Primary current, measuring range	I_{PM}	A	-1500		1500	$2.5 \times I_{PN} @ U_C \geq 4.6\text{ V}$
Number of primary turns	N_P	-		1		Bus bar
Supply voltage ¹⁾	U_C	V	4.5	5	5.5	
Current consumption	I_C	mA		19	25	
Reference voltage (output)	V_{ref}	V	2.48	2.5	2.52	Internal reference
Reference voltage (input)	V_{ref}	V	0.5		2.65	External reference
Output voltage range @ I_{PM}	$V_{out} - V_{ref}$	V	-2		2	Over operating temperature range
V_{ref} output resistance	R_{ref}	Ω	130	200	300	Series
V_{out} output resistance	R_{out}	Ω		2	5	Series
Allowed capacitive load	C_L	nF	0		6	
Overcurrent detection output on resistance	R_{on}	Ω	70	95	150	Open drain, active low Over operating temperature range
Overcurrent detection hold	t_{hold}	ms	0.7	1	1.4	Additional time after threshold has released
EEPROM control	V_{out}	mV	0		50	V_{out} forced to GND when EEPROM in an error state ²⁾
Electrical offset voltage @ $I_P = 0\text{ A}$	V_{OE}	mV	-5		5	$V_{out} - V_{ref} @ V_{ref} = 2.5\text{ V}$
Electrical offset current Referred to primary	I_{OE}	A	-3.75		3.75	
Temperature coefficient of V_{ref}	TCV_{ref}	ppm/K	-170		170	-40 °C ... 105 °C
Temperature coefficient of V_{OE}	TCV_{OE}	mV/K	-0.075		0.075	-40 °C ... 105 °C
Temperature coefficient of I_{OE} @ $I_P = 0\text{ A}$	TCI_{OE}	mA/K	-56.25		56.25	-40 °C ... 105 °C
Theoretical sensitivity	G_{th}	mV/A		1.333		800 mV @ I_{PN}
Sensitivity error @ I_{PN}	ϵ_G	%	-0.5		0.5	Factory adjustment
Temperature coefficient of G	TCG	ppm/K	-250		250	-40 °C ... 105 °C
Linearity error 0 ... I_{PN}	ϵ_L	% of I_{PN}	-0.5		0.5	
Linearity error 0 ... I_{PM}	ϵ_L	% of I_{PM}	-0.5		0.5	
Magnetic offset current (@ $10 \times I_{PN}$) referred to primary	I_{OM}	A	-1.27		1.27	One turn
Reaction time @ 10 % of I_{PN}	t_{ra}	μs		3	3.5	@ 100 A/ μs
Response time @ 90 % of I_{PN}	t_r	μs		3	3.5	@ 100 A/ μs
Frequency bandwidth (-3 dB)	BW	kHz		140		Small signal
Output RMS noise voltage (spectral density) 100 Hz ... 100 kHz	e_{no}	$\mu\text{V}/\sqrt{\text{Hz}}$		5.7		
Output RMS noise voltage (DC ... 10 kHz) (DC ... 100 kHz) (DC ... 1 MHz)	V_{no}	mVpp		4.3 6.0 8.8		
Primary current, detection threshold	I_{PTh}	A	$2.64 \times I_{PN}$	$2.93 \times I_{PN}$	$3.22 \times I_{PN}$	Peak value $\pm 10\%$, overcurrent detection OCD
Accuracy @ I_{PN}	X	% of I_{PN}	-1		1	
Accuracy @ I_{PN} @ $T_A = +105\text{ °C}$	X	% of I_{PN}	-3.8		3.8	
Accuracy @ I_{PN} @ $T_A = +85\text{ °C}$	X	% of I_{PN}	-3.1		3.1	See formula note ³⁾

 Notes: ¹⁾ 3.3 V SP version available

²⁾ EEPROM in an error state makes the transducer behave like a reverse current saturation. Use of the OCD may help to differentiate the two cases

³⁾ Accuracy @ T_A (% of I_{PN}) = $X + \left(\frac{TCG}{10000} \times (T_A - 25) + \frac{TCI_{OE}}{1000 \times I_{PN}} \times 100 \times (T_A - 25) \right)$.

Electrical data HOYL 800-S-0100

 At $T_A = 25\text{ °C}$, $U_C = +5\text{ V}$, $R_L = 10\text{ k}\Omega$ unless otherwise noted (see Min, Max, typ. definition paragraph in page 12).

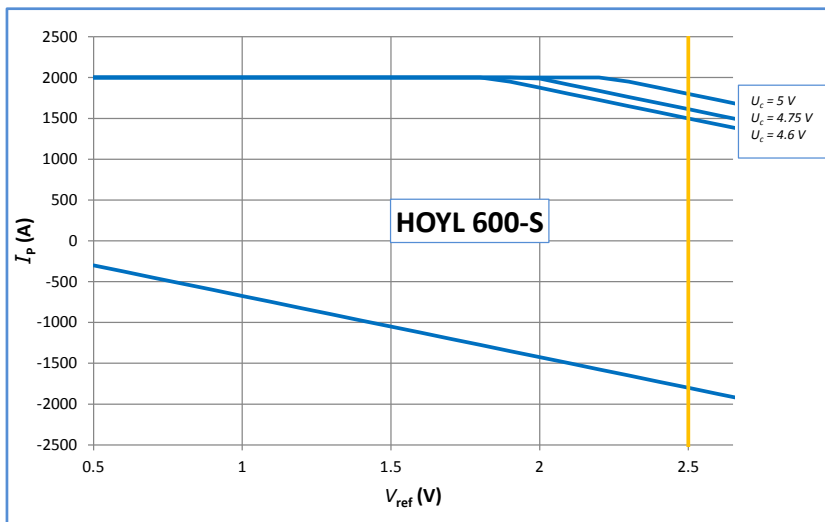
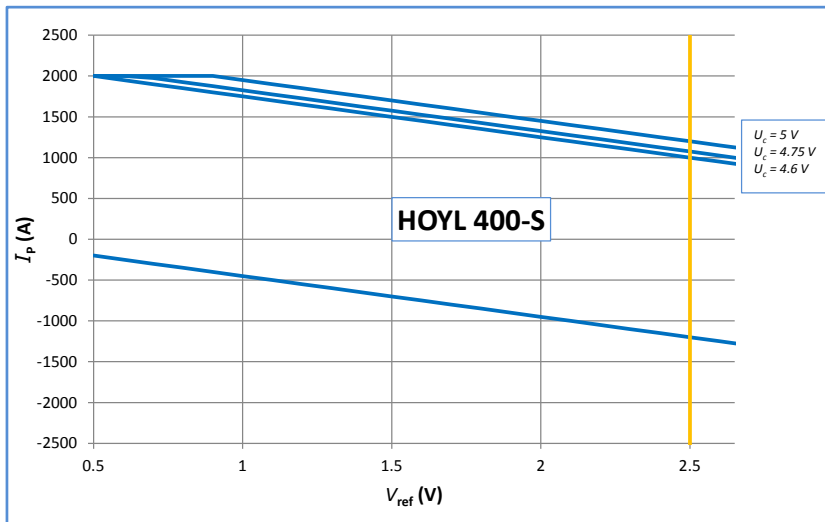
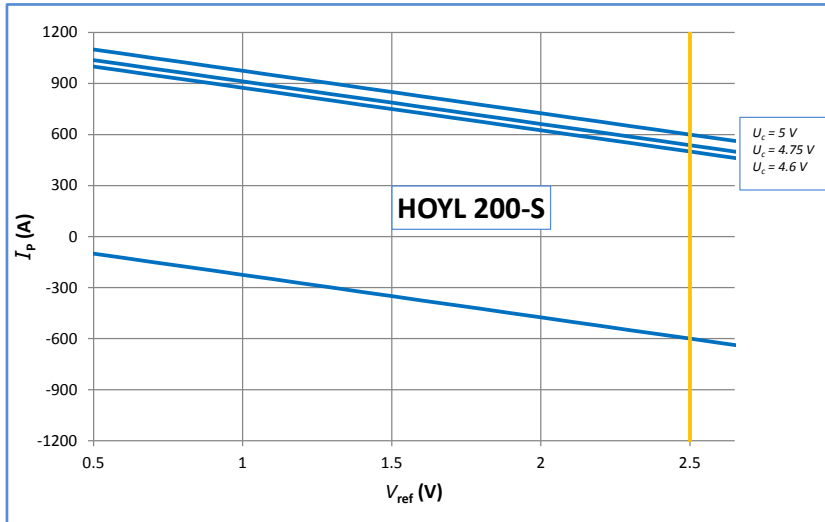
Parameter	Symbol	Unit	Min	Typ	Max	Comment
Primary nominal RMS current	I_{PN}	A		800		
Primary current, measuring range	I_{PM}	A	-2000		2000	$2.5 \times I_{PN}$ @ $U_C \geq 4.6\text{ V}$
Number of primary turns	N_P	-		1		Bus bar
Supply voltage ¹⁾	U_C	V	4.5	5	5.5	
Current consumption	I_C	mA		19	25	
Reference voltage (output)	V_{ref}	V	2.48	2.5	2.52	Internal reference
Reference voltage (input)	V_{ref}	V	0.5		2.65	External reference
Output voltage range @ I_{PM}	$V_{out} - V_{ref}$	V	-2		2	Over operating temperature range
V_{ref} output resistance	R_{ref}	Ω	130	200	300	Series
V_{out} output resistance	R_{out}	Ω		2	5	Series
Allowed capacitive load	C_L	nF	0		6	
Overcurrent detection output on resistance	R_{on}	Ω	70	95	150	Open drain, active low Over operating temperature range
Overcurrent detection hold	t_{hold}	ms	0.7	1	1.4	Additional time after threshold has released
EEPROM control	V_{out}	mV	0		50	V_{out} forced to GND when EEPROM in an error state ²⁾
Electrical offset voltage @ $I_P = 0\text{ A}$	V_{OE}	mV	-5		5	$V_{out} - V_{ref}$ @ $V_{ref} = 2.5\text{ V}$
Electrical offset current Referred to primary	I_{OE}	A	-5		5	
Temperature coefficient of V_{ref}	TCV_{ref}	ppm/K	-170		170	-40 °C ... 105 °C
Temperature coefficient of V_{OE}	TCV_{OE}	mV/K	-0.075		0.075	-40 °C ... 105 °C
Temperature coefficient of I_{OE} @ $I_P = 0\text{ A}$	TCI_{OE}	mA/K	-75		75	-40 °C ... 105 °C
Theoretical sensitivity	G_{th}	mV/A		1		800 mV @ I_{PN}
Sensitivity error @ I_{PN}	ϵ_G	%	-0.5		0.5	Factory adjustment
Temperature coefficient of G	TCG	ppm/K	-250		250	-40 °C ... 105 °C
Linearity error 0 ... I_{PN}	ϵ_L	% of I_{PN}	-0.5		0.5	
Linearity error 0 ... I_{PM}	ϵ_L	% of I_{PM}	-0.5		0.5	
Magnetic offset current (@ $10 \times I_{PN}$) referred to primary	I_{OM}	A	-1.27		1.27	One turn
Reaction time @ 10 % of I_{PN}	t_{ra}	μs		3	3.5	@ 100 A/ μs
Response time @ 90 % of I_{PN}	t_r	μs		3	3.5	@ 100 A/ μs
Frequency bandwidth (-3 dB)	BW	kHz		140		Small signal
Output RMS noise voltage (spectral density) 100 Hz ... 100 kHz	e_{no}	$\mu\text{V}/\sqrt{\text{Hz}}$		5.5		
Output RMS noise voltage (DC ... 10 kHz) (DC ... 100 kHz) (DC ... 1 MHz)	V_{no}	mVpp		4.2 5.8 8.4		
Primary current, detection threshold	I_{PTh}	A	$2.64 \times I_{PN}$	$2.93 \times I_{PN}$	$3.22 \times I_{PN}$	Peak value $\pm 10\%$, overcurrent detection OCD
Accuracy @ I_{PN}	X	% of I_{PN}	-1		1	
Accuracy @ I_{PN} @ $T_A = +105\text{ °C}$	X	% of I_{PN}	-3.8		3.8	
Accuracy @ I_{PN} @ $T_A = +85\text{ °C}$	X	% of I_{PN}	-3.1		3.1	See formula note ³⁾

 Notes: ¹⁾ 3.3 V SP version available

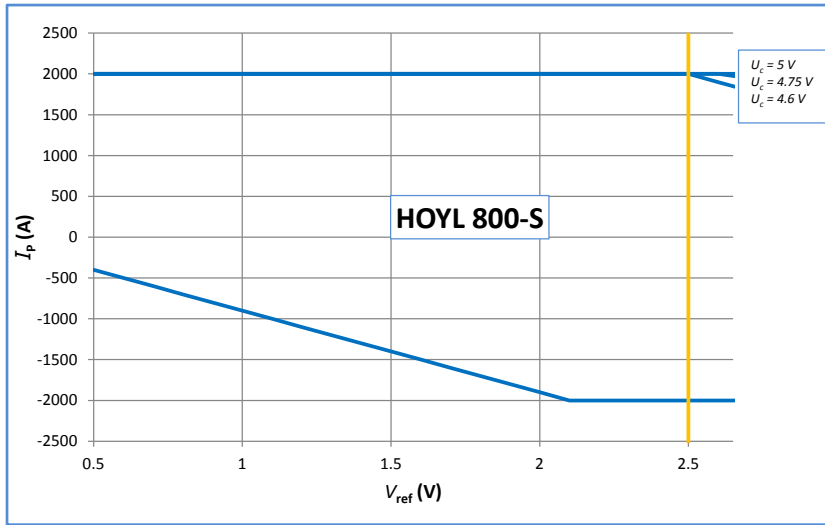
²⁾ EEPROM in an error state makes the transducer behave like a reverse current saturation. Use of the OCD may help to differentiate the two cases

³⁾ Accuracy @ T_A (% of I_{PN}) = $X + \left(\frac{TCG}{10000} \times (T_A - 25) + \frac{TCI_{OE}}{1000 \times I_{PN}} \times 100 \times (T_A - 25)\right)$.

Measuring range versus external reference voltage

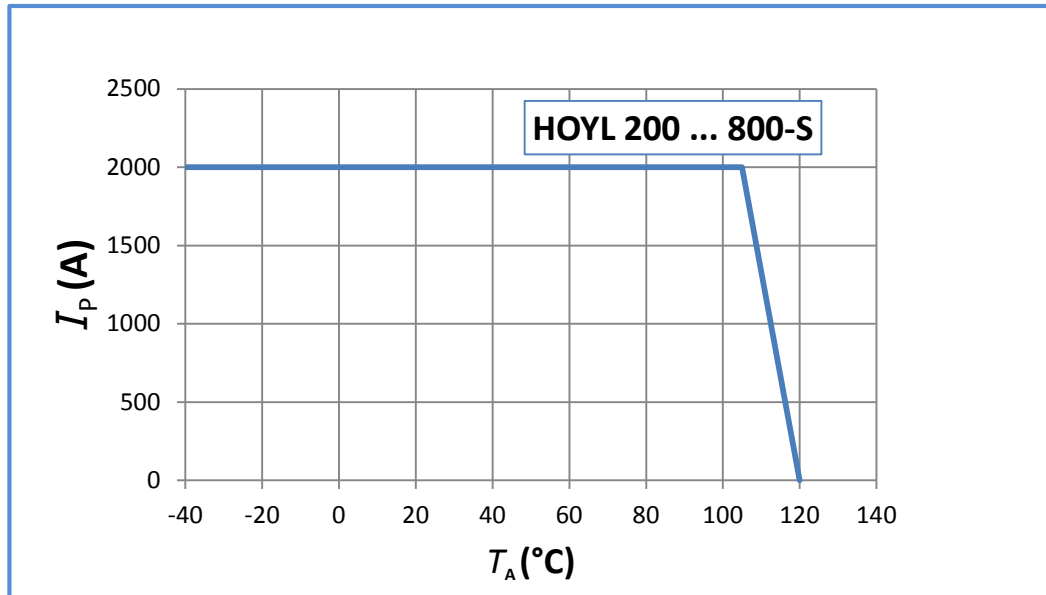


Measuring range versus external reference voltage



Maximum continuous DC current

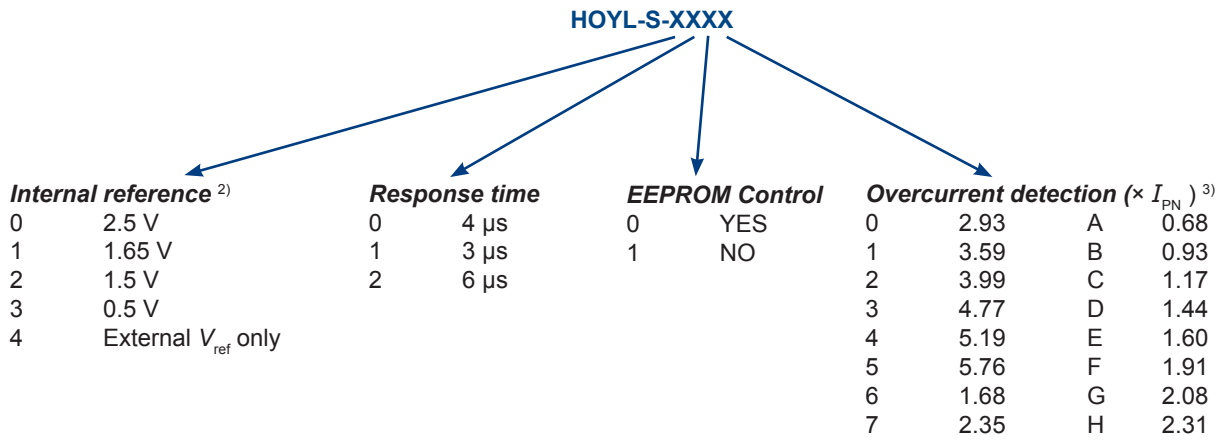
For all ranges:



Important notice: whatever the usage and/or application, the transducer primary bar / jumper temperature shall not go above the maximum rating of 120 °C as stated in page 2 of this datasheet.

HOYL-S series: name and codification

HOYL-S family products may be ordered **on request**¹⁾ with a dedicated setting of the parameters as described below (standard products are delivered with the setting 0100 according to the table).



Notes: ¹⁾ For dedicated settings, minimum quantities apply, please contact your local LEM support

²⁾ V_{ref} electrical data

V_{ref} parameter	V_{ref} (V)			TCV_{ref} (ppm/K)	
	min	typ	max	min	max
0	2.48	2.5	2.52	-170	170
1	1.63	1.65	1.67	-170	170
2	1.48	1.5	1.52	-170	170
3	0.49	0.5	0.51	-250	250

³⁾ OCD ($\times I_{PN}$) correction table versus range and temperature.

All other values or empty cells: no change

HOYL-S-010x				
OCD Parameter	200	400	600	800
A				
B				
C				
D				
E				
6				
F				
G				
H				
7				
0				
1				
2				
3				7.06
4				-
5			6.03	-

Tolerance on OCD value	
±20 %	
±15 %	
±10 %	No change
-	Do not use

Application information

HOYL-S series is designed to be used with a bus-bar or cable ¹⁾ to carry the current through the aperture with a maximum cross-section of 40 × 13 mm.

Note: ¹⁾ The maximum magnetic offset referred to primary is inversely proportional to the number of turns, thus is divided by 2 with 2 turns.

Definition of typical, minimum and maximum values

Minimum and maximum values for specified limiting and safety conditions have to be understood as such as well as values shown in “typical” graphs.

On the other hand, measured values are part of a statistical distribution that can be specified by an interval with upper and lower limits and a probability for measured values to lie within this interval.

Unless otherwise stated (e.g. “100 % tested”), the LEM definition for such intervals designated with “min” and “max” is that the probability for values of samples to lie in this interval is 99.73 %.

For a normal (Gaussian) distribution, this corresponds to an interval between -3 sigma and +3 sigma. If “typical” values are not obviously mean or average values, those values are defined to delimit intervals with a probability of 68.27 %, corresponding to an interval between -sigma and +sigma for a normal distribution.

Typical, minimum and maximum values are determined during the initial characterization of the product.

Remark

Installation of the transducer must be done unless otherwise specified on the datasheet, according to LEM Transducer Generic Mounting Rules. Please refer to LEM document N°ANE120504 available on our Web site: [Products/Product Documentation](#)

Safety

This transducer must be used in limited-energy secondary circuits according to IEC 61800-5-1.



This transducer must be used in electric/electronic equipment with respect to applicable standards and safety requirements in accordance with the manufacturer’s operating instructions.

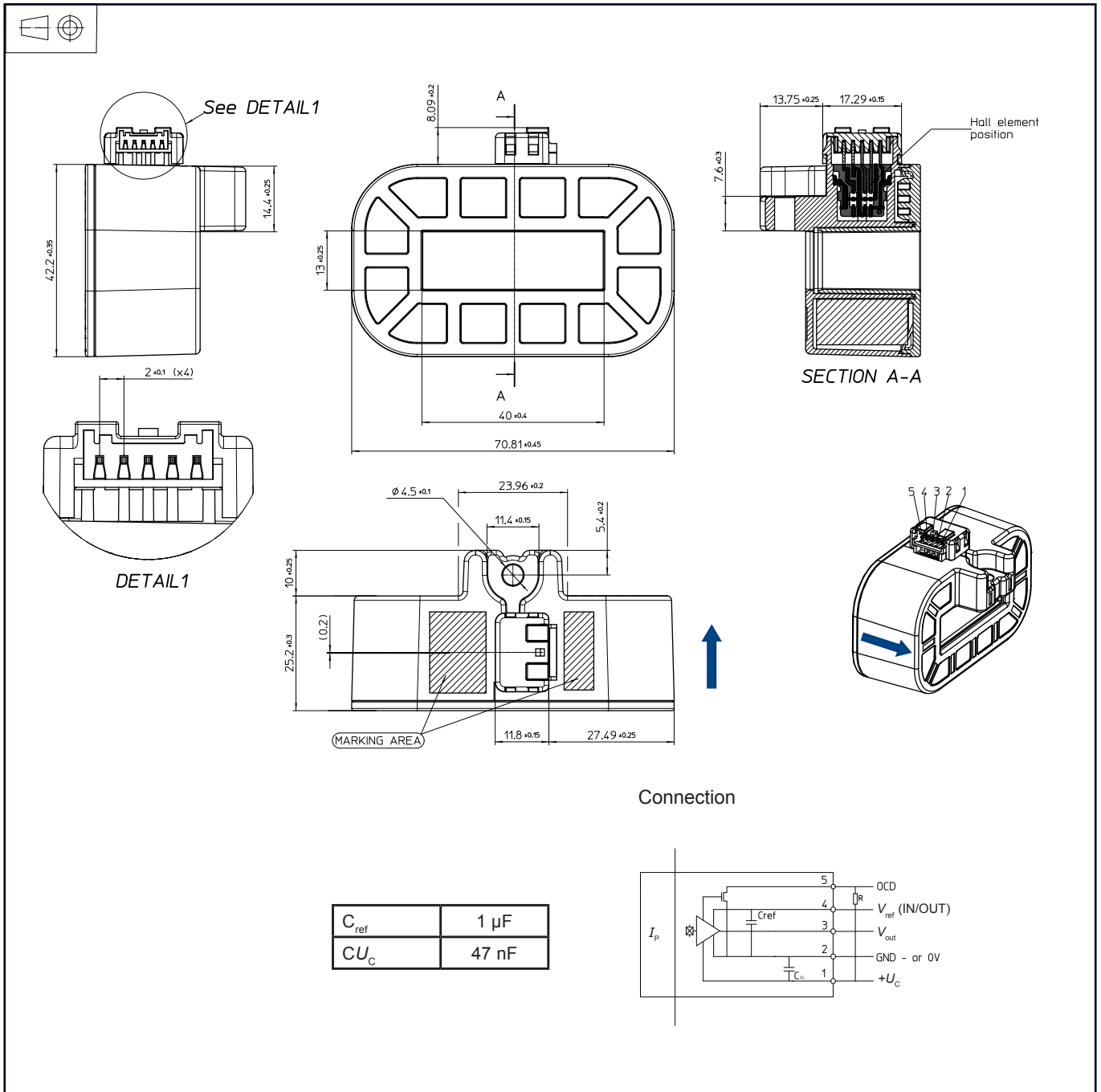


Caution, risk of electrical shock

When operating the transducer, certain parts of the module can carry hazardous voltage (eg. primary busbar, power supply). Ignoring this warning can lead to injury and/or cause serious damage. This transducer is a build-in device, whose conducting parts must be inaccessible after installation. A protective housing or additional shield could be used. Main supply must be able to be disconnected.

Insulation distance (nominal values):

	d_{Cp}	d_{Cl}
Between primary busbar and secondary pins	24.3 mm	24.3 mm
Between primary busbar and core	21.1 mm	-
Between core and secondary terminal	12.3 mm	12.3 mm

Dimensions (mm, general linear tolerance ± 0.3 mm)

Remarks:

- V_{out} is positive with respect to V_{ref} when positive I_p flows in direction of the arrow shown on the drawing above.
- Connection system equivalent to JST B05B-PASK.